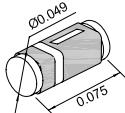
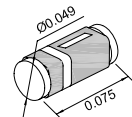


# SMD Zener Diodes (Leadless) - 500mW

## SMD Zener

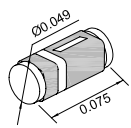
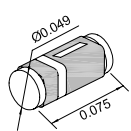
| 500mW    | Marking Code | Nominal Zener Voltage @ I <sub>ZT</sub> |                    |                    | Test Current         | Max. Zener Impedance ( Ω )        |                                   |                      | Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>R</sub> |                    | Package      | Outline (Typ. in Inches)                                                                                              |
|----------|--------------|-----------------------------------------|--------------------|--------------------|----------------------|-----------------------------------|-----------------------------------|----------------------|--------------------------------------------------------------|--------------------|--------------|-----------------------------------------------------------------------------------------------------------------------|
|          |              | Nom.                                    | Min.               | Max.               |                      | Z <sub>ZT</sub> @ I <sub>ZT</sub> | Z <sub>ZK</sub> @ I <sub>ZK</sub> | I <sub>ZK</sub> (mA) | I <sub>R</sub> (μA)                                          | V <sub>R</sub> (V) |              |                                                                                                                       |
| Part No. |              | V <sub>Z</sub> (V)                      | V <sub>Z</sub> (V) | V <sub>Z</sub> (V) | I <sub>ZT</sub> (mA) | Z <sub>ZT</sub> @ I <sub>ZT</sub> | Z <sub>ZK</sub> @ I <sub>ZK</sub> | I <sub>ZK</sub> (mA) | I <sub>R</sub> (μA)                                          | V <sub>R</sub> (V) | 7" /13" Reel |                                                                                                                       |
| TMZJ2.0A | -            | 2.0                                     | 1.88               | 2.10               | 5                    | 100                               | 1000                              | 0.5                  | 120                                                          | 0.5                | 2500/-       | <div>MicroMELF (0805)<br/></div> |
| TMZJ2.0B | -            |                                         | 2.02               | 2.20               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ2.2A | -            | 2.2                                     | 2.12               | 2.30               | 5                    | 100                               | 1000                              | 0.5                  | 100                                                          | 0.7                |              |                                                                                                                       |
| TMZJ2.2B | -            |                                         | 2.22               | 2.41               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ2.4A | -            | 2.4                                     | 2.33               | 2.52               | 5                    | 100                               | 1000                              | 0.5                  | 120                                                          | 1.0                |              |                                                                                                                       |
| TMZJ2.4B | -            |                                         | 2.43               | 2.63               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ2.7A | -            | 2.7                                     | 2.54               | 2.75               | 5                    | 110                               | 1000                              | 0.5                  | 100                                                          | 1.0                |              |                                                                                                                       |
| TMZJ2.7B | -            |                                         | 2.69               | 2.91               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ3.0A | -            | 3.0                                     | 2.85               | 3.07               | 5                    | 120                               | 1000                              | 0.5                  | 50                                                           | 1.0                |              |                                                                                                                       |
| TMZJ3.0B | -            |                                         | 3.01               | 3.22               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ3.3A | -            | 3.3                                     | 3.16               | 3.38               | 5                    | 120                               | 1000                              | 0.5                  | 20                                                           | 1.0                |              |                                                                                                                       |
| TMZJ3.3B | -            |                                         | 3.32               | 3.53               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ3.6A | -            | 3.6                                     | 3.46               | 3.69               | 5                    | 100                               | 1000                              | 1.0                  | 10                                                           | 1.0                |              |                                                                                                                       |
| TMZJ3.6B | -            |                                         | 3.60               | 3.84               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ3.9A | -            | 3.9                                     | 3.74               | 4.01               | 5                    | 100                               | 1000                              | 1.0                  | 5                                                            | 1.0                |              |                                                                                                                       |
| TMZJ3.9B | -            |                                         | 3.89               | 4.16               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ4.3A | -            | 4.3                                     | 4.04               | 4.29               | 5                    | 100                               | 1000                              | 1.0                  | 5                                                            | 1.0                |              |                                                                                                                       |
| TMZJ4.3B | -            |                                         | 4.17               | 4.43               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ4.3C | -            |                                         | 4.30               | 4.57               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ4.7A | -            | 4.7                                     | 4.44               | 4.68               | 5                    | 90                                | 900                               | 1.0                  | 5                                                            | 1.0                |              |                                                                                                                       |
| TMZJ4.7B | -            |                                         | 4.55               | 4.80               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ4.7C | -            |                                         | 4.68               | 4.93               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ5.1A | -            | 5.1                                     | 4.81               | 5.07               | 5                    | 80                                | 800                               | 1.0                  | 5                                                            | 1.5                |              |                                                                                                                       |
| TMZJ5.1B | -            |                                         | 4.94               | 5.20               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ5.1C | -            |                                         | 5.09               | 5.37               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ5.6A | -            | 5.6                                     | 5.28               | 5.55               | 5                    | 60                                | 500                               | 1.0                  | 5                                                            | 2.5                |              |                                                                                                                       |
| TMZJ5.6B | -            |                                         | 5.45               | 5.73               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ5.6C | -            |                                         | 5.61               | 5.91               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ6.2A | -            | 6.2                                     | 5.78               | 6.09               | 5                    | 60                                | 300                               | 1.0                  | 5                                                            | 3.0                |              |                                                                                                                       |
| TMZJ6.2B | -            |                                         | 5.96               | 6.27               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ6.2C | -            |                                         | 6.12               | 6.44               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ6.8A | -            | 6.8                                     | 6.29               | 6.63               | 5                    | 20                                | 150                               | 0.5                  | 2                                                            | 3.5                |              |                                                                                                                       |
| TMZJ6.8B | -            |                                         | 6.49               | 6.83               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ6.8C | -            |                                         | 6.66               | 7.01               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ7.5A | -            | 7.5                                     | 6.85               | 7.22               | 5                    | 20                                | 120                               | 0.5                  | 0.5                                                          | 4                  |              |                                                                                                                       |
| TMZJ7.5B | -            |                                         | 7.07               | 7.45               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ7.5C | -            |                                         | 7.29               | 7.67               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ8.2A | -            | 8.2                                     | 7.53               | 7.92               | 5                    | 20                                | 120                               | 0.5                  | 0.5                                                          | 5                  |              |                                                                                                                       |
| TMZJ8.2B | -            |                                         | 7.78               | 8.19               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ8.2C | -            |                                         | 8.03               | 8.45               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ9.1A | -            | 9.1                                     | 8.29               | 8.73               | 5                    | 25                                | 120                               | 0.5                  | 0.5                                                          | 6                  |              |                                                                                                                       |
| TMZJ9.1B | -            |                                         | 8.57               | 9.01               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ9.1C | -            |                                         | 8.83               | 9.30               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ10A  | -            | 10                                      | 9.12               | 9.59               | 5                    | 30                                | 120                               | 0.5                  | 0.2                                                          | 7                  |              |                                                                                                                       |
| TMZJ10B  | -            |                                         | 9.41               | 9.90               |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ10C  | -            |                                         | 9.70               | 10.20              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ10D  | -            |                                         | 9.94               | 10.44              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ11A  | -            | 11                                      | 10.18              | 10.71              | 5                    | 30                                | 120                               | 0.5                  | 0.2                                                          | 8                  |              |                                                                                                                       |
| TMZJ11B  | -            |                                         | 10.5               | 11.05              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ11C  | -            |                                         | 10.82              | 11.38              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ12A  | -            | 12                                      | 11.13              | 11.71              | 5                    | 30                                | 110                               | 0.5                  | 0.2                                                          | 9                  |              |                                                                                                                       |
| TMZJ12B  | -            |                                         | 11.44              | 12.03              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ12C  | -            |                                         | 11.74              | 12.35              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ13A  | -            | 13                                      | 12.11              | 12.75              | 5                    | 35                                | 110                               | 0.5                  | 0.2                                                          | 10                 |              |                                                                                                                       |
| TMZJ13B  | -            |                                         | 12.55              | 13.21              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ13C  | -            |                                         | 12.99              | 13.66              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |
| TMZJ15A  | -            | 15                                      | 13.44              | 14.13              | 5                    | 40                                | 110                               | 0.5                  | 0.2                                                          | 11                 |              |                                                                                                                       |
| TMZJ15B  | -            |                                         | 13.89              | 14.62              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                                       |

MicroMELF  
(0805)



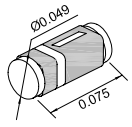
# SMD Zener Diodes (Leadless) - 500mW

## SMD Zener

| 500mW    | Marking Code | Normal Zener Voltage @ I <sub>ZT</sub> |                    |                    | Test Current         | Max. Zener Impedance ( Ω )        |                                   |                      | Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>R</sub> |                                   | Package                           | Outline (Typ. in Inches)                                                                                          |                      |                     |
|----------|--------------|----------------------------------------|--------------------|--------------------|----------------------|-----------------------------------|-----------------------------------|----------------------|--------------------------------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
|          |              | Nom.                                   | Min.               | Max.               |                      | V <sub>Z</sub> (V)                | V <sub>Z</sub> (V)                | V <sub>Z</sub> (V)   | I <sub>ZT</sub> (mA)                                         | Z <sub>ZT</sub> @ I <sub>ZT</sub> | Z <sub>ZK</sub> @ I <sub>ZK</sub> |                                                                                                                   | I <sub>ZK</sub> (mA) | I <sub>R</sub> (μA) |
| Part No. |              | V <sub>Z</sub> (V)                     | V <sub>Z</sub> (V) | V <sub>Z</sub> (V) | I <sub>ZT</sub> (mA) | Z <sub>ZT</sub> @ I <sub>ZT</sub> | Z <sub>ZK</sub> @ I <sub>ZK</sub> | I <sub>ZK</sub> (mA) | I <sub>R</sub> (μA)                                          | V <sub>R</sub> (V)                | 7" /13" Reel                      |                                                                                                                   |                      |                     |
| TMZJ15C  | -            | 15                                     | 14.35              | 15.09              | 5                    | 40                                | 110                               | 0.5                  | 0.2                                                          | 11                                | 2500/-                            | <div>MicroMELF (0805)</div>    |                      |                     |
| TMZJ16A  | -            | 16                                     | 14.80              | 15.57              | 5                    | 40                                | 150                               | 0.5                  | 0.2                                                          | 12                                |                                   |                                                                                                                   |                      |                     |
| TMZJ16B  | -            |                                        | 15.25              | 16.04              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ16C  | -            |                                        | 15.69              | 16.51              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ18A  | -            | 18                                     | 16.22              | 17.06              | 5                    | 45                                | 150                               | 0.5                  | 0.2                                                          | 13                                |                                   |                                                                                                                   |                      |                     |
| TMZJ18B  | -            |                                        | 16.82              | 17.70              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ18C  | -            |                                        | 17.42              | 18.33              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ20A  | -            | 20                                     | 18.02              | 18.96              | 5                    | 55                                | 200                               | 0.5                  | 0.2                                                          | 15                                |                                   |                                                                                                                   |                      |                     |
| TMZJ20B  | -            |                                        | 18.63              | 19.59              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ20C  | -            |                                        | 19.23              | 20.22              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ20D  | -            |                                        | 19.72              | 20.72              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ22A  | -            | 22                                     | 20.15              | 21.20              | 5                    | 30                                | 200                               | 0.5                  | 0.2                                                          | 17                                |                                   |                                                                                                                   |                      |                     |
| TMZJ22B  | -            |                                        | 20.64              | 21.71              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ22C  | -            |                                        | 21.08              | 22.17              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ22D  | -            |                                        | 21.52              | 22.63              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ24A  | -            | 24                                     | 22.05              | 23.18              | 5                    | 35                                | 200                               | 0.5                  | 0.2                                                          | 19                                |                                   |                                                                                                                   |                      |                     |
| TMZJ24B  | -            |                                        | 22.61              | 23.77              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ24C  | -            |                                        | 23.12              | 24.31              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ24D  | -            |                                        | 23.63              | 24.85              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ27A  | -            | 27                                     | 24.26              | 25.52              | 5                    | 45                                | 250                               | 0.5                  | 0.2                                                          | 21                                |                                   |                                                                                                                   |                      |                     |
| TMZJ27B  | -            |                                        | 24.97              | 26.26              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ27C  | -            |                                        | 25.63              | 26.95              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ27D  | -            |                                        | 26.29              | 27.64              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ30A  | -            | 30                                     | 26.99              | 28.39              | 5                    | 55                                | 250                               | 0.5                  | 0.2                                                          | 23                                |                                   |                                                                                                                   |                      |                     |
| TMZJ30B  | -            |                                        | 27.70              | 29.13              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ30C  | -            |                                        | 28.36              | 29.82              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ30D  | -            |                                        | 29.02              | 30.51              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ33A  | -            | 33                                     | 29.68              | 31.22              | 5                    | 65                                | 250                               | 0.5                  | 0.2                                                          | 25                                |                                   |                                                                                                                   |                      |                     |
| TMZJ33B  | -            |                                        | 30.32              | 31.88              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ33C  | -            |                                        | 30.90              | 32.50              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ33D  | -            |                                        | 31.49              | 33.11              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ36A  | -            | 36                                     | 32.14              | 33.79              | 5                    | 75                                | 250                               | 0.5                  | 0.2                                                          | 27                                |                                   |                                                                                                                   |                      |                     |
| TMZJ36B  | -            |                                        | 32.79              | 34.49              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ36C  | -            |                                        | 33.40              | 35.13              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ36D  | -            |                                        | 34.01              | 35.77              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ39A  | -            | 39                                     | 34.68              | 36.47              | 5                    | 85                                | 250                               | 0.5                  | 0.2                                                          | 30                                |                                   |                                                                                                                   |                      |                     |
| TMZJ39B  | -            |                                        | 35.36              | 37.19              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ39C  | -            |                                        | 36.00              | 37.85              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ39D  | -            |                                        | 36.63              | 38.52              |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZJ43   | -            | 43                                     | 40                 | 45                 | 5                    | 90                                | -                                 | -                    | 0.2                                                          | 33                                |                                   |                                                                                                                   |                      |                     |
| TMZJ47   | -            | 47                                     | 44                 | 49                 | 5                    | 90                                | -                                 | -                    | 0.2                                                          | 36                                |                                   |                                                                                                                   |                      |                     |
| TMZJ51   | -            | 51                                     | 48                 | 54                 | 5                    | 110                               | -                                 | -                    | 0.2                                                          | 39                                |                                   |                                                                                                                   |                      |                     |
| TMZJ56   | -            | 56                                     | 53                 | 60                 | 5                    | 110                               | -                                 | -                    | 0.2                                                          | 43                                |                                   |                                                                                                                   |                      |                     |
| TMZ2.0A  | -            | 2.0                                    | 1.88               | 2.10               | 20                   | 140                               | 2000                              | 1.0                  | 120                                                          | 0.5                               | 2500/-                            | <div>MicroMELF (0805)</div>  |                      |                     |
| TMZ2.0B  | -            |                                        | 2.02               | 2.20               |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZ2.2A  | -            | 2.2                                    | 2.12               | 2.30               | 20                   | 120                               | 2000                              | 1.0                  | 120                                                          | 0.7                               |                                   |                                                                                                                   |                      |                     |
| TMZ2.2B  | -            |                                        | 2.22               | 2.41               |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZ2.4A  | -            | 2.4                                    | 2.33               | 2.52               | 20                   | 100                               | 2000                              | 1.0                  | 120                                                          | 1.0                               |                                   |                                                                                                                   |                      |                     |
| TMZ2.4B  | -            |                                        | 2.43               | 2.63               |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZ2.7A  | -            | 2.7                                    | 2.54               | 2.75               | 20                   | 100                               | 1000                              | 1.0                  | 120                                                          | 1.0                               |                                   |                                                                                                                   |                      |                     |
| TMZ2.7B  | -            |                                        | 2.69               | 2.91               |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZ3.0A  | -            | 3.0                                    | 2.85               | 3.07               | 20                   | 80                                | 1000                              | 1.0                  | 50                                                           | 1.0                               |                                   |                                                                                                                   |                      |                     |
| TMZ3.0B  | -            |                                        | 3.01               | 3.22               |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZ3.3A  | -            | 3.3                                    | 3.16               | 3.38               | 20                   | 70                                | 1000                              | 1.0                  | 20                                                           | 1.0                               |                                   |                                                                                                                   |                      |                     |
| TMZ3.3B  | -            |                                        | 3.32               | 3.53               |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZ3.6A  | -            | 3.6                                    | 3.46               | 3.69               | 20                   | 60                                | 1000                              | 1.0                  | 10                                                           | 1.0                               |                                   |                                                                                                                   |                      |                     |
| TMZ3.6B  | -            |                                        | 3.60               | 3.84               |                      |                                   |                                   |                      |                                                              |                                   |                                   |                                                                                                                   |                      |                     |
| TMZ3.9A  | -            | 3.9                                    | 3.74               | 4.01               | 20                   | 50                                | 1000                              | 1.0                  | 5                                                            | 1.0                               |                                   |                                                                                                                   |                      |                     |

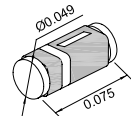
# SMD Zener Diodes (Leadless ) - 500mW

## SMD Zener

| 500mW    | Marking Code | Nominal Zener Voltage @ $I_{ZT}$ |           |           | Test Current  | Max. Zener Impedance ( $\Omega$ ) |                     |               | Max. Reverse Leakage Current $I_R$ @ $V_R$ |           | Package      | Outline (Typ. in Inches)                                                                                      |
|----------|--------------|----------------------------------|-----------|-----------|---------------|-----------------------------------|---------------------|---------------|--------------------------------------------|-----------|--------------|---------------------------------------------------------------------------------------------------------------|
|          |              | Nom.                             | Min.      | Max.      |               | $Z_{ZT}$ @ $I_{ZT}$               | $Z_{ZK}$ @ $I_{ZK}$ | $I_{ZK}$ (mA) | $I_R$ ( $\mu$ A)                           | $V_R$ (V) |              |                                                                                                               |
| Part No. |              | $V_Z$ (V)                        | $V_Z$ (V) | $V_Z$ (V) | $I_{ZT}$ (mA) |                                   |                     |               |                                            |           | 7" /13" Reel |                                                                                                               |
| TMZ3.9B  | -            | 3.9                              | 3.89      | 4.16      | 20            | 50                                | 1000                | 1.0           | 5                                          | 1.0       | 2500/-       | <p>MicroMELF (0805)</p>  |
| TMZ4.3A  | -            |                                  | 4.04      | 4.29      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ4.3B  | -            | 4.3                              | 4.17      | 4.43      | 20            | 40                                | 1000                | 1.0           | 5                                          | 1.0       |              |                                                                                                               |
| TMZ4.3C  | -            |                                  | 4.30      | 4.57      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ4.7A  | -            |                                  | 4.44      | 4.68      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ4.7B  | -            | 4.7                              | 4.55      | 4.80      | 20            | 25                                | 900                 | 1.0           | 5                                          | 1.0       |              |                                                                                                               |
| TMZ4.7C  | -            |                                  | 4.68      | 4.93      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ5.1A  | -            |                                  | 4.81      | 5.07      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ5.1B  | -            | 5.1                              | 4.94      | 5.20      | 20            | 20                                | 800                 | 1.0           | 5                                          | 1.5       |              |                                                                                                               |
| TMZ5.1C  | -            |                                  | 5.09      | 5.37      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ5.6A  | -            |                                  | 5.28      | 5.55      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ5.6B  | -            | 5.6                              | 5.45      | 5.73      | 20            | 13                                | 500                 | 1.0           | 5                                          | 2.5       |              |                                                                                                               |
| TMZ5.6C  | -            |                                  | 5.61      | 5.91      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ6.2A  | -            |                                  | 5.78      | 6.09      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ6.2B  | -            | 6.2                              | 5.96      | 6.27      | 20            | 10                                | 300                 | 1.0           | 5                                          | 3.0       |              |                                                                                                               |
| TMZ6.2C  | -            |                                  | 6.12      | 6.44      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ6.8A  | -            |                                  | 6.29      | 6.63      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ6.8B  | -            | 6.8                              | 6.49      | 6.83      | 20            | 8                                 | 150                 | 0.5           | 2                                          | 3.5       |              |                                                                                                               |
| TMZ6.8C  | -            |                                  | 6.66      | 7.01      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ7.5A  | -            |                                  | 6.85      | 7.22      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ7.5B  | -            | 7.5                              | 7.07      | 7.45      | 20            | 8                                 | 120                 | 0.5           | 0.5                                        | 4         |              |                                                                                                               |
| TMZ7.5C  | -            |                                  | 7.29      | 7.67      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ8.2A  | -            |                                  | 7.53      | 7.92      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ8.2B  | -            | 8.2                              | 7.78      | 8.19      | 20            | 8                                 | 120                 | 0.5           | 0.5                                        | 5         |              |                                                                                                               |
| TMZ8.2C  | -            |                                  | 8.03      | 8.45      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ9.1A  | -            |                                  | 8.29      | 8.73      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ9.1B  | -            | 9.1                              | 8.57      | 9.01      | 20            | 8                                 | 120                 | 0.5           | 0.5                                        | 6         |              |                                                                                                               |
| TMZ9.1C  | -            |                                  | 8.83      | 9.30      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ10A   | -            |                                  | 9.12      | 9.59      |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ10B   | -            | 10                               | 9.41      | 9.90      | 20            | 8                                 | 120                 | 0.5           | 0.2                                        | 7         |              |                                                                                                               |
| TMZ10C   | -            |                                  | 9.70      | 10.20     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ10D   | -            |                                  | 9.94      | 10.44     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ11A   | -            |                                  | 10.18     | 10.71     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ11B   | -            | 11                               | 10.50     | 11.05     | 10            | 10                                | 120                 | 0.5           | 0.2                                        | 8         |              |                                                                                                               |
| TMZ11C   | -            |                                  | 10.82     | 11.38     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ12A   | -            |                                  | 11.13     | 11.71     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ12B   | -            | 12                               | 11.44     | 12.03     | 10            | 12                                | 110                 | 0.5           | 0.2                                        | 9         |              |                                                                                                               |
| TMZ12C   | -            |                                  | 11.74     | 12.35     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ13A   | -            |                                  | 12.11     | 12.75     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ13B   | -            | 13                               | 12.55     | 13.21     | 10            | 14                                | 110                 | 0.5           | 0.2                                        | 10        |              |                                                                                                               |
| TMZ13C   | -            |                                  | 12.99     | 13.66     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ15A   | -            |                                  | 13.44     | 14.13     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ15B   | -            | 15                               | 13.89     | 14.62     | 10            | 16                                | 110                 | 0.5           | 0.2                                        | 11        |              |                                                                                                               |
| TMZ15C   | -            |                                  | 14.35     | 15.09     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ16A   | -            |                                  | 14.80     | 15.57     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ16B   | -            | 16                               | 15.25     | 16.04     | 10            | 18                                | 150                 | 0.5           | 0.2                                        | 12        |              |                                                                                                               |
| TMZ16C   | -            |                                  | 15.69     | 16.51     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ18A   | -            |                                  | 16.22     | 17.06     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ18B   | -            | 18                               | 16.82     | 17.70     | 10            | 23                                | 150                 | 0.5           | 0.2                                        | 13        |              |                                                                                                               |
| TMZ18C   | -            |                                  | 17.42     | 18.33     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ20A   | -            |                                  | 18.02     | 18.96     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ20B   | -            | 20                               | 18.63     | 19.59     | 10            | 28                                | 200                 | 0.5           | 0.2                                        | 15        |              |                                                                                                               |
| TMZ20C   | -            |                                  | 19.23     | 20.22     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ20D   | -            |                                  | 19.72     | 20.72     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ22A   | -            |                                  | 20.15     | 21.20     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ22B   | -            | 22                               | 20.64     | 21.71     | 5             | 30                                | 200                 | 0.5           | 0.2                                        | 17        |              |                                                                                                               |
| TMZ22C   | -            |                                  | 21.08     | 22.17     |               |                                   |                     |               |                                            |           |              |                                                                                                               |
| TMZ22D   | -            |                                  | 21.52     | 22.63     |               |                                   |                     |               |                                            |           |              |                                                                                                               |

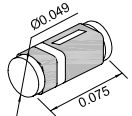
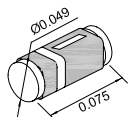
# SMD Zener Diodes (Leadless ) - 500mW

## SMD Zener

| 500mW    | Marking Code | Nominal Zener Voltage @ I <sub>ZT</sub> |                    |                    | Test Current         | Max. Zener Impedance ( Ω )        |                                   |                      | Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>R</sub> |                    | Package      | Outline (Typ. in Inches)                                                                                |  |  |
|----------|--------------|-----------------------------------------|--------------------|--------------------|----------------------|-----------------------------------|-----------------------------------|----------------------|--------------------------------------------------------------|--------------------|--------------|---------------------------------------------------------------------------------------------------------|--|--|
|          |              | Nom.                                    | Min.               | Max.               |                      | Z <sub>ZT</sub> @ I <sub>ZT</sub> | Z <sub>ZK</sub> @ I <sub>ZK</sub> | I <sub>ZK</sub> (mA) | I <sub>R</sub> (μA)                                          | V <sub>R</sub> (V) |              |                                                                                                         |  |  |
| Part No. |              | V <sub>Z</sub> (V)                      | V <sub>Z</sub> (V) | V <sub>Z</sub> (V) | I <sub>ZT</sub> (mA) |                                   |                                   |                      |                                                              |                    | 7" /13" Reel |                                                                                                         |  |  |
| TMZ24A   | -            | 24                                      | 22.05              | 23.18              | 5                    | 35                                | 200                               | 0.5                  | 0.2                                                          | 19                 | 2500/-       | MicroMELF (0805)<br> |  |  |
| TMZ24B   | -            |                                         | 22.61              | 23.77              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ24C   | -            |                                         | 23.12              | 24.31              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ24D   | -            |                                         | 23.63              | 24.85              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ27A   | -            | 27                                      | 24.26              | 25.52              | 5                    | 45                                | 250                               | 0.5                  | 0.2                                                          | 21                 |              |                                                                                                         |  |  |
| TMZ27B   | -            |                                         | 24.97              | 26.26              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ27C   | -            |                                         | 25.63              | 26.95              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ27D   | -            |                                         | 26.29              | 27.64              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ30A   | -            | 30                                      | 26.99              | 28.39              | 5                    | 55                                | 250                               | 0.5                  | 0.2                                                          | 23                 |              |                                                                                                         |  |  |
| TMZ30B   | -            |                                         | 27.70              | 29.13              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ30C   | -            |                                         | 28.36              | 29.82              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ30D   | -            |                                         | 29.02              | 30.51              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ33A   | -            | 33                                      | 29.68              | 31.22              | 5                    | 65                                | 250                               | 0.5                  | 0.2                                                          | 25                 |              |                                                                                                         |  |  |
| TMZ33B   | -            |                                         | 30.32              | 31.88              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ33C   | -            |                                         | 30.90              | 32.50              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ33D   | -            |                                         | 31.49              | 33.11              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ36A   | -            | 36                                      | 32.14              | 33.79              | 5                    | 75                                | 250                               | 0.5                  | 0.2                                                          | 27                 |              |                                                                                                         |  |  |
| TMZ36B   | -            |                                         | 32.79              | 34.49              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ36C   | -            |                                         | 33.40              | 35.13              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ36D   | -            |                                         | 34.01              | 35.77              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ39A   | -            | 39                                      | 34.68              | 36.47              | 5                    | 85                                | 250                               | 0.5                  | 0.2                                                          | 30                 |              |                                                                                                         |  |  |
| TMZ39B   | -            |                                         | 35.36              | 37.19              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ39C   | -            |                                         | 36.00              | 37.85              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ39D   | -            |                                         | 36.63              | 38.52              |                      |                                   |                                   |                      |                                                              |                    |              |                                                                                                         |  |  |
| TMZ43    | -            | 43                                      | 40.00              | 45.00              | 5                    | 90                                |                                   |                      | 0.2                                                          | 33                 |              |                                                                                                         |  |  |
| TMZ47    | -            | 47                                      | 44.00              | 49.00              | 5                    | 90                                |                                   |                      | 0.2                                                          | 36                 |              |                                                                                                         |  |  |
| TMZ51    | -            | 51                                      | 48.00              | 54.00              | 5                    | 110                               |                                   |                      | 0.2                                                          | 39                 |              |                                                                                                         |  |  |
| TMZ56    | -            | 56                                      | 53.00              | 60.00              | 5                    | 110                               |                                   |                      | 0.2                                                          | 43                 |              |                                                                                                         |  |  |

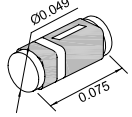
# SMD Zener Diodes (Leadless) - 500mW

## SMD Zener

| 500mW     | Marking Code | Nominal Zener Voltage @ $I_{ZT}$ |           |           | Test Current  | Max. Zener Impedance ( $\Omega$ ) |                     |               | Max. Reverse Leakage Current $I_R$ @ $V_R$ |           | Package      | Outline (Typ. in Inches)                                                                                  |
|-----------|--------------|----------------------------------|-----------|-----------|---------------|-----------------------------------|---------------------|---------------|--------------------------------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------|
|           |              | Nom.                             | Min.      | Max.      |               | $Z_{ZT}$ @ $I_{ZT}$               | $Z_{ZK}$ @ $I_{ZK}$ | $I_{ZK}$ (mA) | $I_R$ ( $\mu$ A)                           | $V_R$ (V) |              |                                                                                                           |
| Part No.  |              | $V_Z$ (V)                        | $V_Z$ (V) | $V_Z$ (V) | $I_{ZT}$ (mA) |                                   |                     |               |                                            |           | 7" /13" Reel |                                                                                                           |
| TMZ55C2V4 | -            | 2.4                              | 2.28      | 2.56      | 5             | 85                                | 600                 | 1             | 50                                         | 1         | 2500/-       | MicroMELF (0805)<br>   |
| TMZ55C2V7 | -            | 2.7                              | 2.5       | 2.9       | 5             | 85                                | 600                 | 1             | 10                                         | 1         |              |                                                                                                           |
| TMZ55C3V0 | -            | 3                                | 2.8       | 3.2       | 5             | 85                                | 600                 | 1             | 4                                          | 1         |              |                                                                                                           |
| TMZ55C3V3 | -            | 3.3                              | 3.1       | 3.5       | 5             | 85                                | 600                 | 1             | 2                                          | 1         |              |                                                                                                           |
| TMZ55C3V6 | -            | 3.6                              | 3.4       | 3.8       | 5             | 85                                | 600                 | 1             | 2                                          | 1         |              |                                                                                                           |
| TMZ55C3V9 | -            | 3.9                              | 3.7       | 4.1       | 5             | 85                                | 600                 | 1             | 2                                          | 1         |              |                                                                                                           |
| TMZ55C4V3 | -            | 4.3                              | 4.0       | 4.6       | 5             | 75                                | 600                 | 1             | 1                                          | 1         |              |                                                                                                           |
| TMZ55C4V7 | -            | 4.7                              | 4.4       | 5.0       | 5             | 60                                | 600                 | 1             | 0.5                                        | 1         |              |                                                                                                           |
| TMZ55C5V1 | -            | 5.1                              | 4.8       | 5.4       | 5             | 35                                | 550                 | 1             | 0.1                                        | 1         |              |                                                                                                           |
| TMZ55C5V6 | -            | 5.6                              | 5.2       | 6.0       | 5             | 25                                | 450                 | 1             | 0.1                                        | 1         |              |                                                                                                           |
| TMZ55C6V2 | -            | 6.2                              | 5.8       | 6.6       | 5             | 10                                | 200                 | 1             | 0.1                                        | 2         |              |                                                                                                           |
| TMZ55C6V8 | -            | 6.8                              | 6.4       | 7.2       | 5             | 8                                 | 150                 | 1             | 0.1                                        | 3         |              |                                                                                                           |
| TMZ55C7V5 | -            | 7.5                              | 7.0       | 7.9       | 5             | 7                                 | 50                  | 1             | 0.1                                        | 5         |              |                                                                                                           |
| TMZ55C8V2 | -            | 8.2                              | 7.7       | 8.7       | 5             | 7                                 | 50                  | 1             | 0.1                                        | 6         |              |                                                                                                           |
| TMZ55C9V1 | -            | 9.1                              | 8.5       | 9.6       | 5             | 10                                | 50                  | 1             | 0.1                                        | 7         |              |                                                                                                           |
| TMZ55C10  | -            | 10                               | 9.4       | 10.6      | 5             | 15                                | 70                  | 1             | 0.1                                        | 7.5       |              |                                                                                                           |
| TMZ55C11  | -            | 11                               | 10.4      | 11.6      | 5             | 20                                | 70                  | 1             | 0.1                                        | 8.5       |              |                                                                                                           |
| TMZ55C12  | -            | 12                               | 11.4      | 12.7      | 5             | 20                                | 90                  | 1             | 0.1                                        | 9         |              |                                                                                                           |
| TMZ55C13  | -            | 13                               | 12.4      | 14.1      | 5             | 26                                | 110                 | 1             | 0.1                                        | 10        |              |                                                                                                           |
| TMZ55C15  | -            | 15                               | 13.8      | 15.6      | 5             | 30                                | 110                 | 1             | 0.1                                        | 11        |              |                                                                                                           |
| TMZ55C16  | -            | 16                               | 15.3      | 17.1      | 5             | 40                                | 170                 | 1             | 0.1                                        | 12        |              |                                                                                                           |
| TMZ55C18  | -            | 18                               | 16.8      | 19.1      | 5             | 50                                | 170                 | 1             | 0.1                                        | 14        |              |                                                                                                           |
| TMZ55C20  | -            | 20                               | 18.8      | 21.2      | 5             | 55                                | 220                 | 1             | 0.1                                        | 15        |              |                                                                                                           |
| TMZ55C22  | -            | 22                               | 20.8      | 23.3      | 5             | 55                                | 220                 | 1             | 0.1                                        | 17        |              |                                                                                                           |
| TMZ55C24  | -            | 24                               | 22.8      | 25.6      | 5             | 80                                | 220                 | 1             | 0.1                                        | 18        |              |                                                                                                           |
| TMZ55C27  | -            | 27                               | 25.1      | 28.9      | 5             | 80                                | 220                 | 1             | 0.1                                        | 20        |              |                                                                                                           |
| TMZ55C30  | -            | 30                               | 28        | 32        | 5             | 80                                | 220                 | 1             | 0.1                                        | 22        |              |                                                                                                           |
| TMZ55C33  | -            | 33                               | 31        | 35        | 5             | 80                                | 220                 | 1             | 0.1                                        | 24        |              |                                                                                                           |
| TMZ55C36  | -            | 36                               | 34        | 38        | 5             | 80                                | 220                 | 1             | 0.1                                        | 27        |              |                                                                                                           |
| TMZ55C39  | -            | 39                               | 37        | 41        | 5             | 90                                | 500                 | 1             | 0.1                                        | 30        |              |                                                                                                           |
| TMZ55C43  | -            | 43                               | 40        | 46        | 2.5           | 90                                | 600                 | 1             | 0.1                                        | 33        |              |                                                                                                           |
| TMZ55C47  | -            | 47                               | 44        | 50        | 2.5           | 110                               | 700                 | 1             | 0.1                                        | 36        |              |                                                                                                           |
| TMZ55C51  | -            | 51                               | 48        | 54        | 2.5           | 125                               | 700                 | 0.5           | 0.1                                        | 39        |              |                                                                                                           |
| TMZ55C56  | -            | 56                               | 52        | 60        | 2.5           | 135                               | 1000                | 0.5           | 0.1                                        | 43        |              |                                                                                                           |
| TMZ55C62  | -            | 62                               | 58        | 66        | 2.5           | 150                               | 1000                | 0.5           | 0.1                                        | 47        |              |                                                                                                           |
| TMZ55C68  | -            | 68                               | 64        | 72        | 2.5           | 200                               | 1000                | 0.5           | 0.1                                        | 51        |              |                                                                                                           |
| TMZ55C75  | -            | 75                               | 70        | 79        | 2.5           | 250                               | 1500                | 0.5           | 0.1                                        | 56        |              |                                                                                                           |
| TMZ5221B  | -            | 2.4                              | 2.28      | 2.52      | 20.0          | 30.0                              | 1200                | 0.25          | 100                                        | 1.0       | 2500/-       | MicroMELF (0805)<br> |
| TMZ5222B  | -            | 2.5                              | 2.38      | 2.63      | 20.0          | 30.0                              | 1250                | 0.25          | 100                                        | 1.0       |              |                                                                                                           |
| TMZ5223B  | -            | 2.7                              | 2.57      | 2.84      | 20.0          | 30.0                              | 1300                | 0.25          | 75.0                                       | 1.0       |              |                                                                                                           |
| TMZ5224B  | -            | 2.8                              | 2.66      | 2.94      | 20.0          | 30.0                              | 1400                | 0.25          | 75.0                                       | 1.0       |              |                                                                                                           |
| TMZ5225B  | -            | 3.0                              | 2.85      | 3.15      | 20.0          | 29.0                              | 1600                | 0.25          | 50.0                                       | 1.0       |              |                                                                                                           |
| TMZ5226B  | -            | 3.3                              | 3.14      | 3.47      | 20.0          | 28.0                              | 1600                | 0.25          | 25.0                                       | 1.0       |              |                                                                                                           |
| TMZ5227B  | -            | 3.6                              | 3.42      | 3.78      | 20.0          | 24.0                              | 1700                | 0.25          | 15.0                                       | 1.0       |              |                                                                                                           |
| TMZ5228B  | -            | 3.9                              | 3.71      | 4.10      | 20.0          | 23.0                              | 1900                | 0.25          | 10.0                                       | 1.0       |              |                                                                                                           |
| TMZ5229B  | -            | 4.3                              | 4.09      | 4.52      | 20.0          | 22.0                              | 2000                | 0.25          | 5.0                                        | 1.0       |              |                                                                                                           |
| TMZ5230B  | -            | 4.7                              | 4.47      | 4.94      | 20.0          | 19.0                              | 1900                | 0.25          | 5.0                                        | 2.0       |              |                                                                                                           |
| TMZ5231B  | -            | 5.1                              | 4.85      | 5.36      | 20.0          | 17.0                              | 1600                | 0.25          | 5.0                                        | 2.0       |              |                                                                                                           |
| TMZ5232B  | -            | 5.6                              | 5.32      | 5.88      | 20.0          | 11.0                              | 1600                | 0.25          | 5.0                                        | 3.0       |              |                                                                                                           |
| TMZ5233B  | -            | 6.0                              | 5.70      | 6.30      | 20.0          | 7.0                               | 1600                | 0.25          | 5.0                                        | 3.5       |              |                                                                                                           |
| TMZ5234B  | -            | 6.2                              | 5.89      | 6.51      | 20.0          | 7.0                               | 1000                | 0.25          | 5.0                                        | 4.0       |              |                                                                                                           |
| TMZ5235B  | -            | 6.8                              | 6.46      | 7.14      | 20.0          | 5.0                               | 750                 | 0.25          | 3.0                                        | 5.0       |              |                                                                                                           |
| TMZ5236B  | -            | 7.5                              | 7.13      | 7.88      | 20.0          | 6.0                               | 500                 | 0.25          | 3.0                                        | 6.0       |              |                                                                                                           |
| TMZ5237B  | -            | 8.2                              | 7.79      | 8.61      | 20.0          | 8.0                               | 500                 | 0.25          | 3.0                                        | 6.5       |              |                                                                                                           |
| TMZ5238B  | -            | 8.7                              | 8.27      | 9.14      | 20.0          | 8.0                               | 600                 | 0.25          | 3.0                                        | 6.5       |              |                                                                                                           |

# SMD Zener Diodes (Leadless ) - 500mW

## SMD Zener

| 500mW    | Marking Code | Nominal Zener Voltage @ $I_{ZT}$ |           |           | Test Current  | Max. Zener Impedance ( $\Omega$ ) |                     |               | Max. Reverse Leakage Current $I_R$ @ $V_R$ |           | Package      | Outline (Typ. in Inches)                                                                             |
|----------|--------------|----------------------------------|-----------|-----------|---------------|-----------------------------------|---------------------|---------------|--------------------------------------------|-----------|--------------|------------------------------------------------------------------------------------------------------|
|          |              | Nom.                             | Min.      | Max.      |               | $Z_{ZT}$ @ $I_{ZT}$               | $Z_{ZK}$ @ $I_{ZK}$ | $I_{ZK}$ (mA) | $I_R$ ( $\mu$ A)                           | $V_R$ (V) |              |                                                                                                      |
| Part No. |              | $V_Z$ (V)                        | $V_Z$ (V) | $V_Z$ (V) | $I_{ZT}$ (mA) | $Z_{ZT}$ @ $I_{ZT}$               | $Z_{ZK}$ @ $I_{ZK}$ | $I_{ZK}$ (mA) | $I_R$ ( $\mu$ A)                           | $V_R$ (V) | 7" /13" Reel |                                                                                                      |
| TMZ5239B | -            | 9.1                              | 8.65      | 9.56      | 20.0          | 10.0                              | 600                 | 0.25          | 3.0                                        | 7.0       | 2500/-       | MicroMELF (0805)  |
| TMZ5240B | -            | 10                               | 9.50      | 10.50     | 20.0          | 17.0                              | 600                 | 0.25          | 3.0                                        | 8.0       |              |                                                                                                      |
| TMZ5241B | -            | 11                               | 10.45     | 11.55     | 20.0          | 22.0                              | 600                 | 0.25          | 2.0                                        | 8.4       |              |                                                                                                      |
| TMZ5242B | -            | 12                               | 11.40     | 12.60     | 20.0          | 30.0                              | 600                 | 0.25          | 1.0                                        | 9.1       |              |                                                                                                      |
| TMZ5243B | -            | 13                               | 12.35     | 13.65     | 9.5           | 13.0                              | 600                 | 0.25          | 0.5                                        | 9.9       |              |                                                                                                      |
| TMZ5244B | -            | 14                               | 13.30     | 14.70     | 9.0           | 15.0                              | 600                 | 0.25          | 0.1                                        | 10.0      |              |                                                                                                      |
| TMZ5245B | -            | 15                               | 14.25     | 15.75     | 8.5           | 16.0                              | 600                 | 0.25          | 0.1                                        | 11.0      |              |                                                                                                      |
| TMZ5246B | -            | 16                               | 15.20     | 16.80     | 7.8           | 17.0                              | 600                 | 0.25          | 0.1                                        | 12.0      |              |                                                                                                      |
| TMZ5247B | -            | 17                               | 16.15     | 17.85     | 7.4           | 19.0                              | 600                 | 0.25          | 0.1                                        | 13.0      |              |                                                                                                      |
| TMZ5248B | -            | 18                               | 17.10     | 18.90     | 7.0           | 21.0                              | 600                 | 0.25          | 0.1                                        | 14.0      |              |                                                                                                      |
| TMZ5249B | -            | 19                               | 18.05     | 19.95     | 6.6           | 23.0                              | 600                 | 0.25          | 0.1                                        | 14.0      |              |                                                                                                      |
| TMZ5250B | -            | 20                               | 19.00     | 21.00     | 6.2           | 25.0                              | 600                 | 0.25          | 0.1                                        | 15.0      |              |                                                                                                      |
| TMZ5251B | -            | 22                               | 20.90     | 23.10     | 5.6           | 29.0                              | 600                 | 0.25          | 0.1                                        | 17.0      |              |                                                                                                      |
| TMZ5252B | -            | 24                               | 22.80     | 25.20     | 5.2           | 33.0                              | 600                 | 0.25          | 0.1                                        | 18.0      |              |                                                                                                      |
| TMZ5253B | -            | 25                               | 23.75     | 26.25     | 5.0           | 35.0                              | 600                 | 0.25          | 0.1                                        | 19.0      |              |                                                                                                      |
| TMZ5254B | -            | 27                               | 25.65     | 28.35     | 4.6           | 41.0                              | 600                 | 0.25          | 0.1                                        | 21.0      |              |                                                                                                      |
| TMZ5255B | -            | 28                               | 26.60     | 29.40     | 4.5           | 44.0                              | 600                 | 0.25          | 0.1                                        | 21.0      |              |                                                                                                      |
| TMZ5256B | -            | 30                               | 28.50     | 31.50     | 4.2           | 49.0                              | 600                 | 0.25          | 0.1                                        | 23.0      |              |                                                                                                      |
| TMZ5257B | -            | 33                               | 31.35     | 34.65     | 3.8           | 58.0                              | 700                 | 0.25          | 0.1                                        | 25.0      |              |                                                                                                      |
| TMZ5258B | -            | 36                               | 34.20     | 37.80     | 3.4           | 70.0                              | 700                 | 0.25          | 0.1                                        | 27.0      |              |                                                                                                      |
| TMZ5259B | -            | 39                               | 37.05     | 40.95     | 3.2           | 80.0                              | 800                 | 0.25          | 0.1                                        | 30.0      |              |                                                                                                      |
| TMZ5260B | -            | 43                               | 40.85     | 45.15     | 3.0           | 93.0                              | 900                 | 0.25          | 0.1                                        | 33.0      |              |                                                                                                      |
| TMZ5261B | -            | 47                               | 44.65     | 49.35     | 2.7           | 150.0                             | 1000                | 0.25          | 0.1                                        | 36.0      |              |                                                                                                      |
| TMZ5262B | -            | 51                               | 48.45     | 53.55     | 2.5           | 125.0                             | 1100                | 0.25          | 0.1                                        | 39.0      |              |                                                                                                      |
| TMZ5263B | -            | 56                               | 53.20     | 58.80     | 2.2           | 150.0                             | 1300                | 0.25          | 0.1                                        | 43.0      |              |                                                                                                      |
| TMZ5264B | -            | 60                               | 57.00     | 63.00     | 2.1           | 170.0                             | 1400                | 0.25          | 0.1                                        | 46.0      |              |                                                                                                      |
| TMZ5265B | -            | 62                               | 58.90     | 65.10     | 2.0           | 185.0                             | 1400                | 0.25          | 0.1                                        | 47.0      |              |                                                                                                      |
| TMZ5266B | -            | 68                               | 64.60     | 71.40     | 1.8           | 230.0                             | 1600                | 0.25          | 0.1                                        | 52.0      |              |                                                                                                      |