

500mW Zener Diodes

Features

- Planar Die Construction
- 500mW Power Dissipation
- Zener Voltage: 2.0V to 56V
- Ideally Suited for Automated Assembly Processes
- RoHS compliant and Halogen Free



DO-35



HALOGEN
FREE

Mechanical Data

Case:	Molded glass DO-35
Terminals:	Leads, tin-lead plated solderable per MIL-STD-750, method 2026
Polarity:	Color band denotes cathode end
Approx Weight:	0.13 gram

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	Value	Unit	Conditions
P_{tot}	Power Dissipation at T _a =25°C	500	mW	
R_{thJA}	Thermal Resistance Junction to Ambient Air	0.3	K/mW	
V_F	Max. Forward Voltage	1	V	I _F =100mA
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-65 to +175	°C	

Note: Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

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TZXJ2.0A - TZXJ56

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

0.5W	Marking Code	Normal Zener Voltage @ IZT (Note 1)			Test Current	Max.Zener Impedance (Ω)			Maximum Reverse Leakage Current IR @ VR	
		Nom.	Min.	Max.		ZZT @ IZT	Zzk @ Izk	Izk(mA)	IR(μ A)	VR(V)
P/N		Vz(V)	Vz(V)	Vz(V)	IZT(mA)					
TZXJ2.0A	Z2A0	2.0	1.88	2.10	5	100	1000	0.5	120	0.5
TZXJ2.0B	Z2B0	2.0	2.02	2.20	5	100	1000	0.5	120	0.5
TZXJ2.2A	Z2A2	2.2	2.12	2.30	5	100	1000	0.5	120	0.7
TZXJ2.2B	Z2B2	2.2	2.22	2.41	5	100	1000	0.5	120	0.7
TZXJ2.4A	Z2A4	2.4	2.33	2.52	5	100	1000	0.5	120	1.0
TZXJ2.4B	Z2B4	2.4	2.43	2.63	5	100	1000	0.5	120	1.0
TZXJ2.7A	Z2A7	2.7	2.54	2.75	5	110	1000	0.5	120	1.0
TZXJ2.7B	Z2B7	2.7	2.69	2.91	5	110	1000	0.5	120	1.0
TZXJ3.0A	Z3A0	3.0	2.85	3.07	5	120	1000	0.5	50	1.0
TZXJ3.0B	Z3B0	3.0	3.01	3.22	5	120	1000	0.5	50	1.0
TZXJ3.3A	Z3A3	3.3	3.16	3.38	5	120	1000	0.5	20	1.0
TZXJ3.3B	Z3B3	3.3	3.32	3.53	5	120	1000	0.5	20	1.0
TZXJ3.6A	Z3A6	3.6	3.46	3.69	5	100	1000	1.0	10	1.0
TZXJ3.6B	Z3B6	3.6	3.60	3.84	5	100	1000	1.0	10	1.0
TZXJ3.9A	Z3A9	3.9	3.74	4.01	5	100	1000	1.0	5	1.0
TZXJ3.9B	Z3B9	3.9	3.89	4.16	5	100	1000	1.0	5	1.0
TZXJ4.3A	Z4A3	4.3	4.04	4.29	5	100	1000	1.0	5	1.0
TZXJ4.3B	Z4B3	4.3	4.17	4.43	5	100	1000	1.0	5	1.0
TZXJ4.3C	Z4C3	4.3	4.30	4.57	5	100	1000	1.0	5	1.0
TZXJ4.7A	Z4A7	4.7	4.44	4.68	5	90	900	1.0	5	1.0
TZXJ4.7B	Z4B7	4.7	4.55	4.80	5	90	900	1.0	5	1.0
TZXJ4.7C	Z4C7	4.7	4.68	4.93	5	90	900	1.0	5	1.0
TZXJ5.1A	Z5A1	5.1	4.81	5.07	5	80	800	1.0	5	1.5
TZXJ5.1B	Z5B1	5.1	4.94	5.20	5	80	800	1.0	5	1.5
TZXJ5.1C	Z5C1	5.1	5.09	5.37	5	80	800	1.0	5	1.5
TZXJ5.6A	Z5A6	5.6	5.28	5.55	5	60	500	1.0	5	2.5
TZXJ5.6B	Z5B6	5.6	5.45	5.73	5	60	500	1.0	5	2.5

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		Nom.	Min.	Max.		ZZT @ IZT	Zzk @ Izk	Izk(mA)	IR(μ A)	VR(V)
P/N		Vz(V)	Vz(V)	Vz(V)	IzT(mA)					
TZXJ5.6C	Z5C6	5.6	5.61	5.91	5	60	500	1.0	5	2.5
TZXJ6.2A	Z6A2	6.2	5.78	6.09	5	60	300	1.0	5	3.0
TZXJ6.2B	Z6B2	6.2	5.96	6.27	5	60	300	1.0	5	3.0
TZXJ6.2C	Z6C2	6.2	6.12	6.44	5	60	300	1.0	5	3.0
TZXJ6.8A	Z6A8	6.8	6.29	6.63	5	20	150	0.5	2	3.5
TZXJ6.8B	Z6B8	6.8	6.49	6.83	5	20	150	0.5	2	3.5
TZXJ6.8C	Z6C8	6.8	6.66	7.01	5	20	150	0.5	2	3.5
TZXJ7.5A	Z7A5	7.5	6.85	7.22	5	20	120	0.5	0.5	4.0
TZXJ7.5B	Z7B5	7.5	7.07	7.45	5	20	120	0.5	0.5	4.0
TZXJ7.5C	Z7C5	7.5	7.29	7.67	5	20	120	0.5	0.5	4.0
TZXJ8.2A	Z8A2	8.2	7.53	7.92	5	20	120	0.5	0.5	5.0
TZXJ8.2B	Z8B2	8.2	7.78	8.19	5	20	120	0.5	0.5	5.0
TZXJ8.2C	Z8C2	8.2	8.03	8.45	5	20	120	0.5	0.5	5.0
TZXJ9.1A	Z9A1	9.1	8.29	8.73	5	25	120	0.5	0.5	6.0
TZXJ9.1B	Z9B1	9.1	8.57	9.01	5	25	120	0.5	0.5	6.0
TZXJ9.1C	Z9C1	9.1	8.83	9.30	5	25	120	0.5	0.5	6.0
TZXJ10A	Z10A	10	9.12	9.59	5	30	120	0.5	0.2	7.0
TZXJ10B	Z10B	10	9.41	9.90	5	30	120	0.5	0.2	7.0
TZXJ10C	Z10C	10	9.70	10.20	5	30	120	0.5	0.2	7.0
TZXJ10D	Z10D	10	9.94	10.44	5	30	120	0.5	0.2	7.0
TZXJ11A	Z11A	11	10.18	10.71	5	30	120	0.5	0.2	8.0
TZXJ11B	Z11B	11	10.50	11.05	5	30	120	0.5	0.2	8.0
TZXJ11C	Z11C	11	10.82	11.38	5	30	120	0.5	0.2	8.0
TZXJ12A	Z12A	12	11.13	11.71	5	30	110	0.5	0.2	9.0
TZXJ12B	Z12B	12	11.44	12.03	5	30	110	0.5	0.2	9.0
TZXJ12C	Z12C	12	11.74	12.35	5	30	110	0.5	0.2	9.0
TZXJ13A	Z13A	13	12.11	12.75	5	35	110	0.5	0.2	10
TZXJ13B	Z13B	13	12.55	13.21	5	35	110	0.5	0.2	10
TZXJ13C	Z13C	13	12.99	13.66	5	35	110	0.5	0.2	10

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TZXJ2.0A - TZXJ56

0.5W	Marking Code	Normal Zener Voltage @ IZT (Note 1)			Test Current	Max.Zener Impedance (Ω)			Maximum Reverse Leakage Current IR @ VR	
		Nom.	Min.	Max.		ZZT @ IZT	Zzk @ Izk	Izk(mA)	IR(μA)	VR(V)
P/N		VZ(V)	VZ(V)	VZ(V)	IzT(mA)					
TZXJ15A	Z15A	15	13.44	14.13	5	40	110	0.5	0.2	11
TZXJ15B	Z15B	15	13.89	14.62	5	40	110	0.5	0.2	11
TZXJ15C	Z15C	15	14.35	15.09	5	40	110	0.5	0.2	11
TZXJ16A	Z16A	16	14.80	15.57	5	40	150	0.5	0.2	12
TZXJ16B	Z16B	16	15.25	16.04	5	40	150	0.5	0.2	12
TZXJ16C	Z16C	16	15.69	16.51	5	40	150	0.5	0.2	12
TZXJ18A	Z18A	18	16.22	17.06	5	45	150	0.5	0.2	13
TZXJ18B	Z18B	18	16.82	17.70	5	45	150	0.5	0.2	13
TZXJ18C	Z18C	18	17.42	18.33	5	45	150	0.5	0.2	13
TZXJ20A	Z20A	20	18.02	18.96	5	55	200	0.5	0.2	15
TZXJ20B	Z20B	20	18.63	19.59	5	55	200	0.5	0.2	15
TZXJ20C	Z20C	20	19.23	20.22	5	55	200	0.5	0.2	15
TZXJ20D	Z20D	20	19.72	20.72	5	55	200	0.5	0.2	15
TZXJ22A	Z22A	22	20.15	21.20	5	30	200	0.5	0.2	17
TZXJ22B	Z22B	22	20.64	21.71	5	30	200	0.5	0.2	17
TZXJ22C	Z22C	22	21.08	22.17	5	30	200	0.5	0.2	17
TZXJ22D	Z22D	22	21.52	22.63	5	30	200	0.5	0.2	17
TZXJ24A	Z24A	24	22.05	23.18	5	35	200	0.5	0.2	19
TZXJ24B	Z24B	24	22.61	23.77	5	35	200	0.5	0.2	19
TZXJ24C	Z24C	24	23.12	24.31	5	35	200	0.5	0.2	19
TZXJ24D	Z24D	24	23.63	24.85	5	35	200	0.5	0.2	19
TZXJ27A	Z27A	27	24.26	25.52	5	45	250	0.5	0.2	21
TZXJ27B	Z27B	27	24.97	26.26	5	45	250	0.5	0.2	21
TZXJ27C	Z27C	27	25.63	26.95	5	45	250	0.5	0.2	21
TZXJ27D	Z27D	27	26.29	27.64	5	45	250	0.5	0.2	21
TZXJ30A	Z30A	30	26.99	28.39	5	55	250	0.5	0.2	23
TZXJ30B	Z30B	30	27.70	29.13	5	55	250	0.5	0.2	23
TZXJ30C	Z30C	30	28.36	29.82	5	55	250	0.5	0.2	23
TZXJ30D	Z30D	30	29.02	30.51	5	55	250	0.5	0.2	23

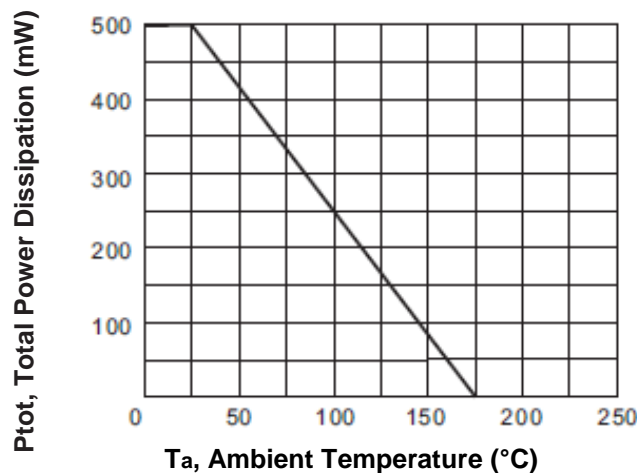
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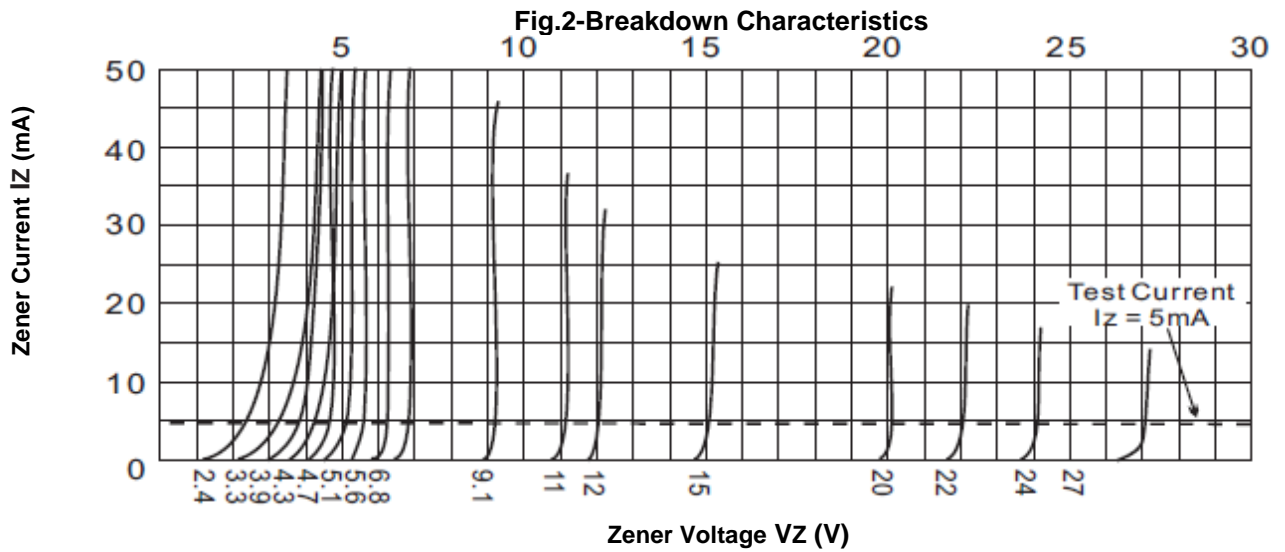
TZXJ2.0A - TZXJ56

0.5W	Marking Code	Normal Zener Voltage @ IZT (Note 1)			Test Current	Max.Zener Impedance (Ω)			Maximum Reverse Leakage Current IR @ VR	
		Nom.	Min.	Max.		ZZT @ IZT	Zzk @ Izk	Izk(mA)	IR(μ A)	VR(V)
P/N		VZ(V)	VZ(V)	VZ(V)	IZT(mA)					
TZXJ33A	Z33A	33	29.68	31.22	5	65	250	0.5	0.2	25
TZXJ33B	Z33B	33	30.32	31.88	5	65	250	0.5	0.2	25
TZXJ33C	Z33C	33	30.90	32.50	5	65	250	0.5	0.2	25
TZXJ33D	Z33D	33	31.49	33.11	5	65	250	0.5	0.2	25
TZXJ36A	Z36A	36	32.14	33.79	5	75	250	0.5	0.2	27
TZXJ36B	Z36B	36	32.79	34.49	5	75	250	0.5	0.2	27
TZXJ36C	Z36C	36	33.40	35.13	5	75	250	0.5	0.2	27
TZXJ36D	Z36D	36	34.01	35.77	5	75	250	0.5	0.2	27
TZXJ39A	Z39A	39	34.68	36.47	5	85	250	0.5	0.2	30
TZXJ39B	Z39B	39	35.36	37.19	5	85	250	0.5	0.2	30
TZXJ39C	Z39C	39	36.00	37.85	5	85	250	0.5	0.2	30
TZXJ39D	Z39D	39	36.63	38.52	5	85	250	0.5	0.2	30
TZXJ43	Z43	43	40.00	45.00	5	90	-	-	0.2	33
TZXJ47	Z47	47	44.00	49.00	5	90	-	-	0.2	36
TZXJ51	Z51	51	48.00	54.00	5	110	-	-	0.2	39
TZXJ56	Z56	56	53.00	60.00	5	110	-	-	0.2	43

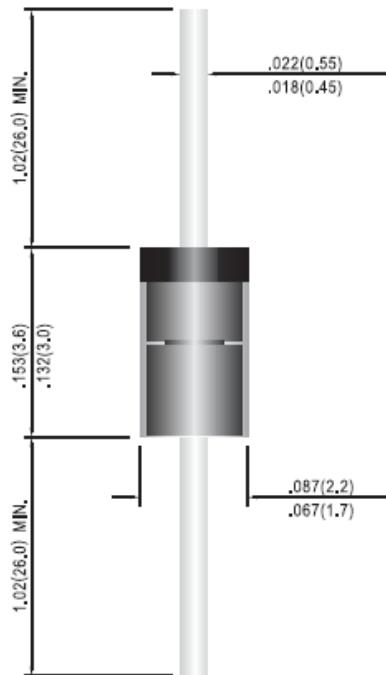
Typical Characteristics Curves

Fig.1-Total Power Dissipation vs. Ambient Temperature





Dimensions in inch (mm)



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How to contact us

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