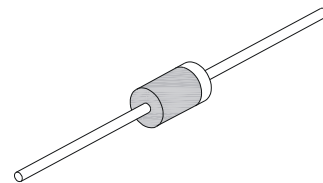


5.0W Zener Diodes

Features

- Glass passivated junction
- Typical I_D less than $1\mu A$ above 13V
- Low inductance
- Low leakage current
- RoHS Compliance



1.5KE



Mechanical Data

Case:	Molded plastic black body, 1.5KE
Epoxy:	Plastic package has UL flammability 94V-0
Lead:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.0395 ounce, 1.122 grams

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

Symbol	Description	Value	Unit	Conditions
P_D	Power Dissipation	5.0	W	$T_L=75^{\circ}C$
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to 150	$^{\circ}C$	

5.0W Zener Diodes

1N5334B - 1N5369B

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

Part NO.	Nominal Zener Voltage @ I _{ZT}			Max. Zener Impedance (Ω)				Max. Reverse Leakage Current I _R @ V _R	
	V _Z (V)								
	Nom.	Min.	Max.	I _{ZT} (mA)	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{zk}	I _{zk} (mA)	I _R (μA)	V _R (V)
1N5334B	3.6	3.42	3.78	350	3.0	500	1.0	150	1.0
1N5335B	3.9	3.71	4.10	320	2.0	500	1.0	50	1.0
1N5336B	4.3	4.09	4.52	290	2.0	500	1.0	10	1.0
1N5337B	4.7	4.47	4.94	260	2.0	450	1.0	10	1.0
1N5338B	5.1	4.85	5.36	240	2.0	400	1.0	10	1.0
1N5339B	5.6	5.32	5.88	220	1.0	400	1.0	10	2.0
1N5340B	6.0	5.70	6.30	200	1.0	300	1.0	10	3.0
1N5341B	6.2	5.89	6.51	200	1.0	200	1.0	10	3.0
1N5342B	6.8	6.46	7.14	175	1.0	200	1.0	10	5.2
1N5343B	7.5	7.13	7.88	175	2.0	200	1.0	10	5.7
1N5344B	8.2	7.79	8.61	150	2.0	200	1.0	10	6.2
1N5345B	8.7	8.27	9.14	150	2.0	200	1.0	10	6.6
1N5346B	9.1	8.65	9.56	150	2.0	150	1.0	7.5	6.9
1N5347B	10	9.50	10.50	125	2.0	125	1.0	5.0	7.6
1N5348B	11	10.45	11.55	125	3.0	125	1.0	5.0	8.4
1N5349B	12	11.40	12.60	100	3.0	125	1.0	2.0	9.1
1N5350B	13	12.35	13.65	100	3.0	100	1.0	1.0	9.9
1N5351B	14	13.30	14.70	100	3.0	75	1.0	1.0	10.6
1N5352B	15	14.25	15.75	75	3.0	75	1.0	1.0	11.5
1N5353B	16	15.20	16.80	75	3.0	75	1.0	1.0	12.2
1N5354B	17	16.15	17.85	70	3.0	75	1.0	0.5	12.9
1N5355B	18	17.10	18.90	65	3.0	75	1.0	0.5	13.7
1N5356B	19	18.05	19.95	65	3.0	75	1.0	0.5	14.4
1N5357B	20	19.00	21.00	65	3.0	75	1.0	0.5	15.2
1N5358B	22	20.90	23.10	50	4.0	75	1.0	0.5	16.7
1N5359B	24	22.80	25.20	50	4.0	100	1.0	0.5	18.2
1N5360B	25	23.75	26.25	50	4.0	110	1.0	0.5	19.0
1N5361B	27	25.65	28.35	50	5.0	120	1.0	0.5	20.6
1N5362B	28	26.60	29.40	50	6.0	130	1.0	0.5	21.2
1N5363B	30	28.50	31.50	40	8.0	140	1.0	0.5	22.8
1N5364B	33	31.35	34.65	40	10	150	1.0	0.5	25.1

5.0W Zener Diodes

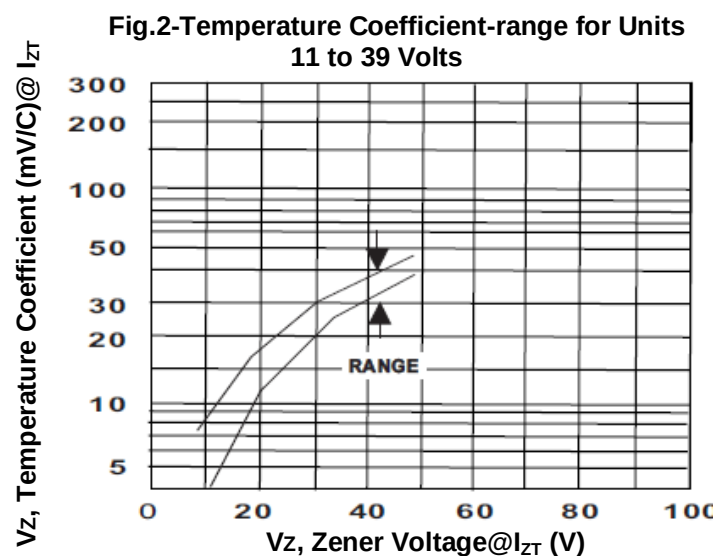
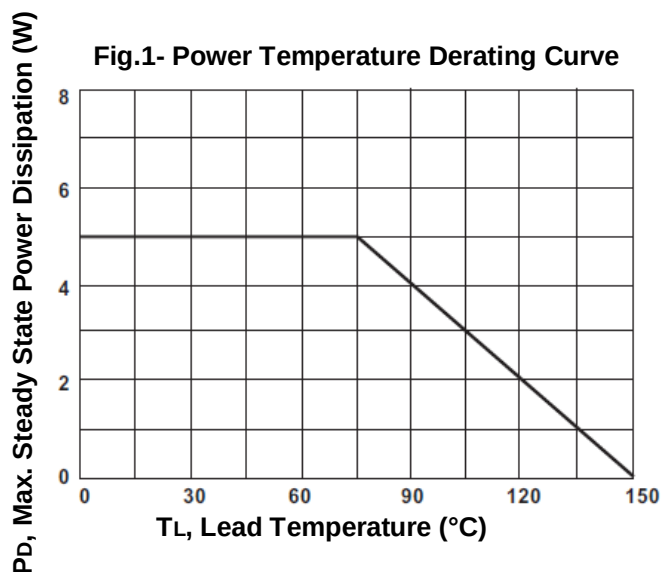
1N5334B - 1N5369B

Part NO.	Nominal Zener Voltage @ IZT			Max. Zener Impedance (Ω)				Max. Reverse Leakage Current IR @ VR	
	V z(V)								
	Nom.	Min.	Max.	IZT(mA)	ZZT @ IZT	ZZK @ Izk	IZK(mA)	IR (μA)	VR (V)
1N5365B	36	34.20	37.80	30	11	160	1.0	0.5	27.4
1N5366B	39	37.05	40.95	30	14	170	1.0	0.5	29.7
1N5367B	43	40.85	45.15	30	20	190	1.0	0.5	32.7
1N5368B	47	44.65	49.35	25	25	210	1.0	0.5	35.8
1N5369B	51	48.45	53.55	25	27	230	1.0	0.5	38.8

Note:

1. Test with pulses. Pulse test: $t_p \leq 50$ ms; $\delta < 2\%$
2. Test conditions for voltage regulation are as follows. V_Z measurements are made at 10% and then at 50% of the I_Z max. value listed in the electrical characteristics table.

Typical Characteristics Curves



5.0W Zener Diodes

1N5334B - 1N5369B

Fig.3- Peak Surge Current vs. Pulse Width

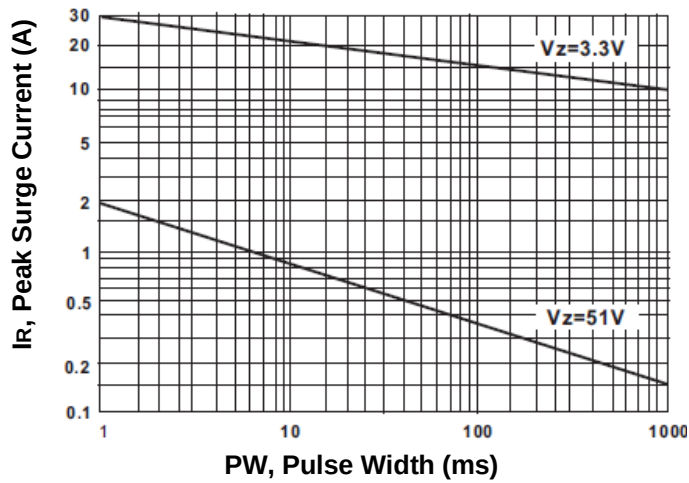
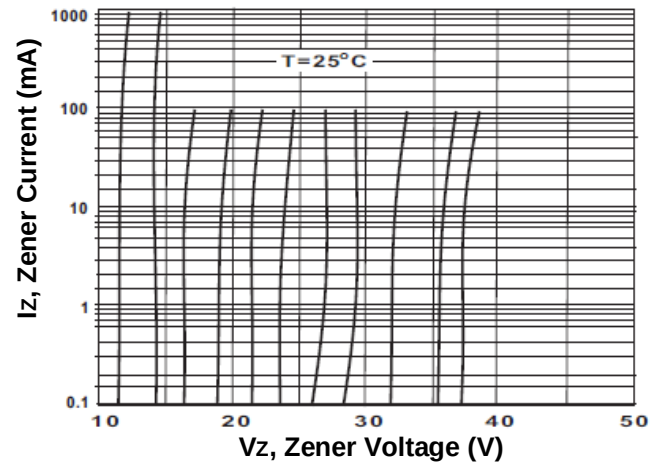
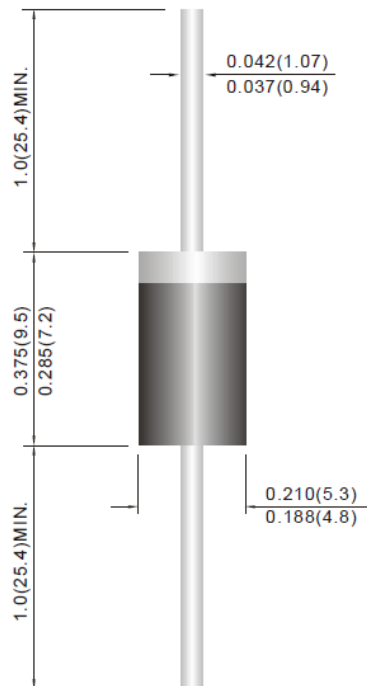


Fig.4- Zener Voltage vs. Zener Current
 $V_Z = 11$ thru 39 Volts



Dimensions in inch (mm)



1.5KE

How to contact us

USA HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

SUITE 1503, METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027