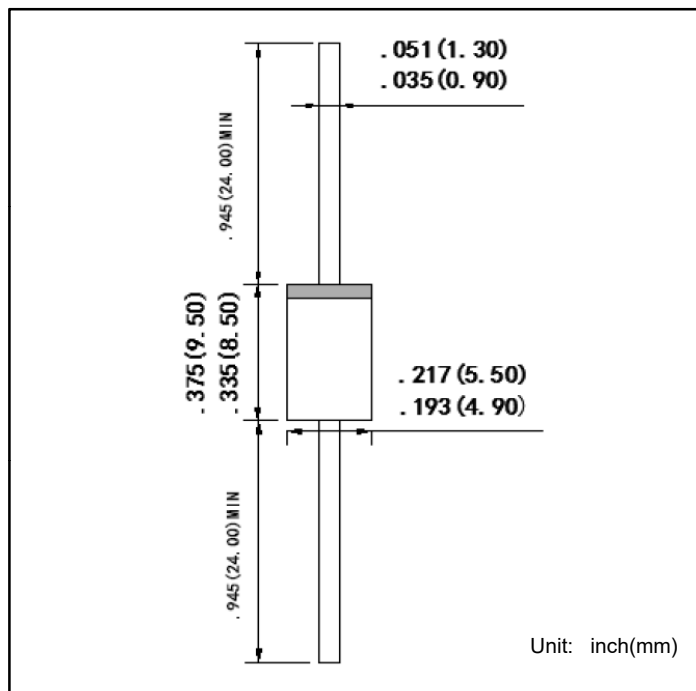


Zener Voltage 3.3 ~ 200 V

5.0 Watt Power Dissipation

DO-27



Features

- Glass passivated chip
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- Low reverse leakage
- For use in stabilizing and clipping with high power rating
- RoHS compliant

Mechanical Data

- Case: DO-27 Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Mounting position: Any

Parameter	Symbols	Value	Unit
DC Power dissipation at TL = 75 °C ⁽¹⁾	P _D	5.0	W
Maximum forward voltage at if=200mA	V _F	1.2	V
Junction temperature range	T _J , T _{STG}	-55 to +150	°C
Storage temperature range	T _J , T _{STG}	-55 to +150	°C

Note :

(1) T_L=Lead temperature at 3/8" (9.5mm)from body

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

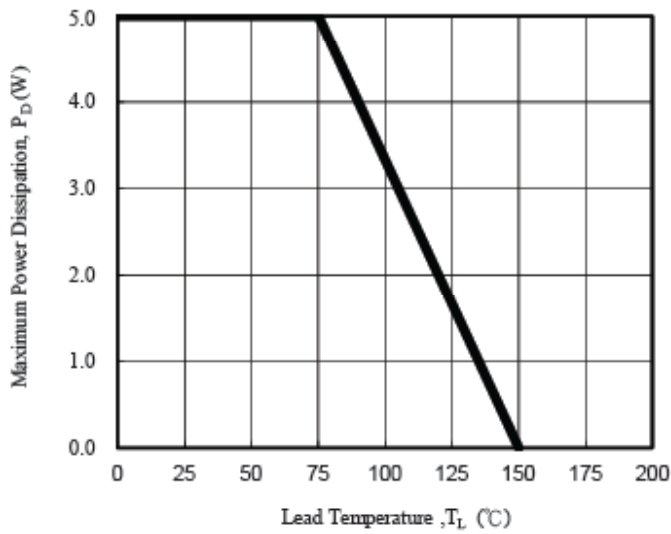


Fig. 1 - Power Temperature Derating Curve

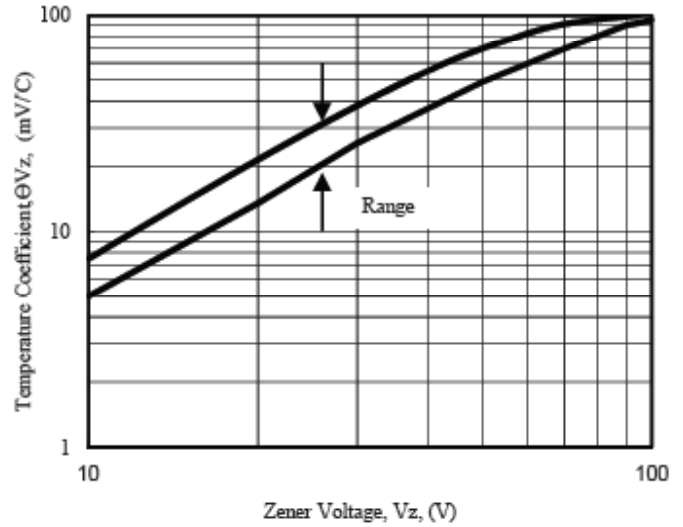


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

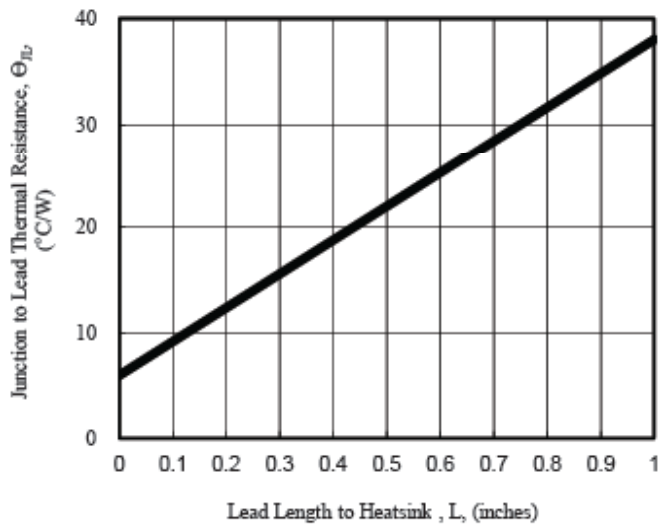


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

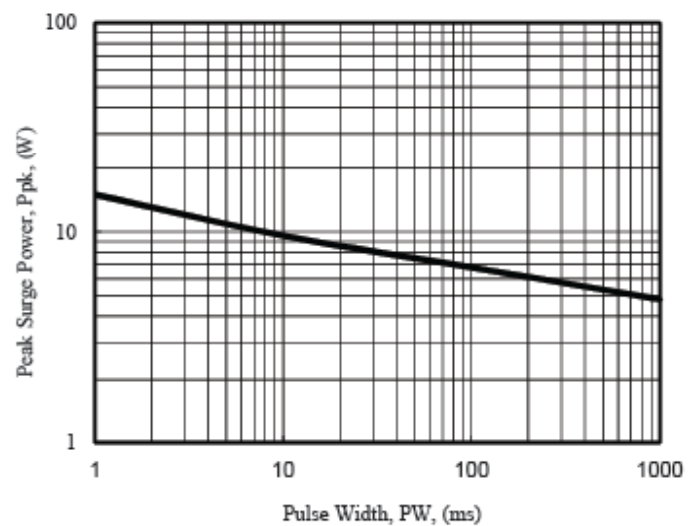


Fig. 4 - Maximum Surge Power

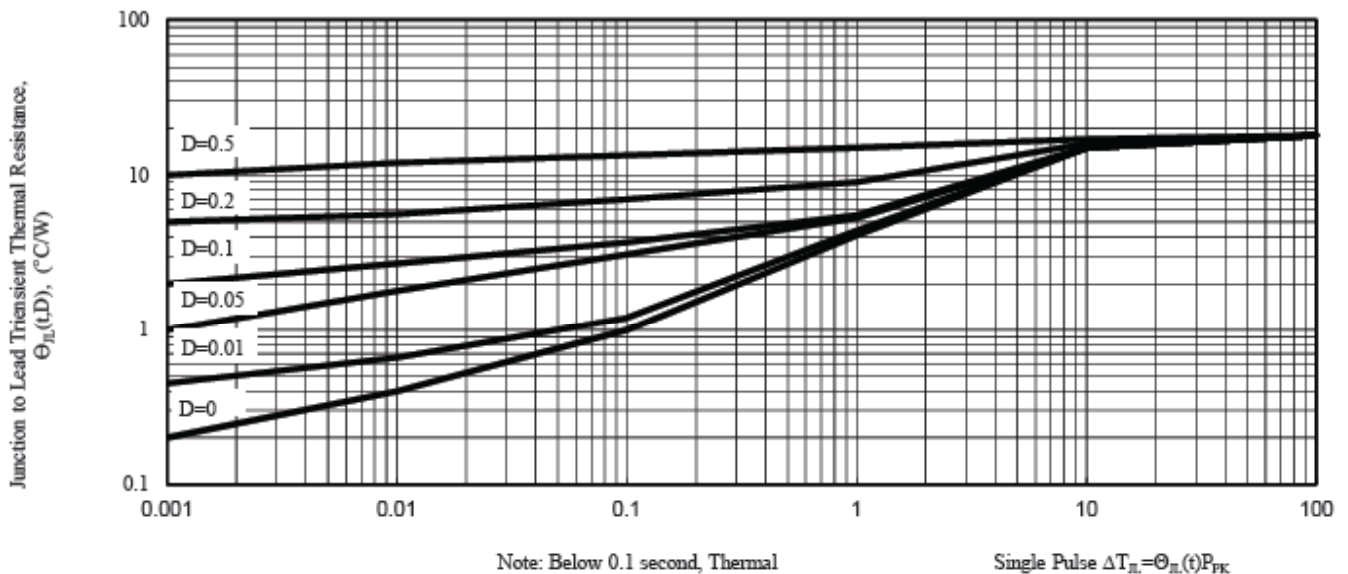


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch

Part Number	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	V _{Z AVE.} (V)	V _{Z MIN.} (V)	V _{Z MAX.} (V)		Z _{KT MAX.} (Ω) @I _{ZT}	Z _{KK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (uA) @V _R	V _R (V)	
1N5333	3.3	3.14	3.47	380	3.0	400	1.00	300	1.0	1437.0
1N5334	3.6	3.42	3.78	350.0	2.5	500	1.00	150	1.0	1317.0
1N5335	3.9	3.71	4.10	320.0	2.0	500	1.00	50	1.0	1216.0
1N5336	4.3	4.09	4.52	290.0	2.0	500	1.00	10	1.0	1103.0
1N5337	4.7	4.47	4.94	260.0	2.0	450	1.00	5	1.0	1009.0
1N5338	5.1	4.85	5.36	240.0	1.5	400	1.00	1.0	1.0	930.0
1N5339	5.6	5.32	5.88	220.0	1.0	400	1.00	1.0	2.0	846.0
1N5340	6.0	5.70	6.30	200.0	1.0	300	1.00	1.0	3.0	790.0
1N5341	6.2	5.89	6.51	200.0	1.0	200	1.00	1.0	3.0	765.0
1N5342	6.8	6.46	7.14	175.0	1.0	200	1.00	10.0	5.2	700.0
1N5343	7.5	7.13	7.88	175.0	1.5	200	1.00	10.0	5.7	630.0
1N5344	8.2	7.79	8.61	150.0	1.5	200	1.00	10.0	6.2	580.0
1N5345	8.7	8.27	9.14	150.0	2.0	200	1.00	10.0	6.6	545.0
1N5346	9.1	8.65	9.56	150.0	2.0	150	1.00	7.5	6.9	520.0
1N5347	10.0	9.50	10.50	125.0	2.0	125	1.00	5	7.6	475.0
1N5348	11.0	10.45	11.55	125.0	2.5	125	1.00	5	8.4	430.0
1N5349	12.0	11.40	12.60	100.0	2.5	125	1.00	2	9.1	395.0
1N5350	13.0	12.35	13.65	100.0	2.5	100	1.00	1	9.9	365.0
1N5351	14.0	13.30	14.70	100.0	2.5	75	1.00	1	10.6	340.0
1N5352	15.0	14.25	15.75	75.0	2.5	75	1.00	1	11.5	315.0
1N5353	16.0	15.20	16.80	75.0	2.5	75	1.00	1	12.2	295.0
1N5354	17.0	16.15	17.85	70.0	2.5	75	1.00	0.5	12.9	280.0
1N5355	18.0	17.10	18.90	65.0	2.5	75	1.00	0.5	13.7	265.0
1N5356	19.0	18.05	19.95	65.0	3.0	75	1.00	0.5	14.4	250.0
1N5357	20.0	19.00	21.00	65.0	3.0	75	1.00	0.5	15.2	237.0
1N5358	22.0	20.90	23.10	50.0	3.5	75	1.00	0.5	16.7	216.0
1N5359	24.0	22.80	25.20	50.0	3.5	100	1.00	0.5	18.2	198.0
1N5360	25.0	23.75	26.25	50.0	4.0	110	1.00	0.5	19.0	190.0
1N5361	27.0	25.65	28.35	50.0	5.0	120	1.00	0.5	20.6	176.0
1N5362	28.0	26.60	29.40	50.0	6.0	130	1.00	0.5	21.2	170.0
1N5363	30.0	28.50	31.50	40.0	8.0	140	1.00	0.5	22.8	158.0
1N5364	33.0	31.35	34.65	40.0	10.0	150	1.00	0.5	25.1	144.0
1N5365	36.0	34.20	37.80	30.0	11.0	160	1.00	0.5	27.4	132.0
1N5366	39.0	37.05	40.95	30.0	14.0	170	1.00	0.5	29.7	122.0
1N5367	43.0	40.85	45.15	30.0	20.0	190	1.00	0.5	32.7	110.0
1N5368	47.0	44.65	49.35	25.0	25.0	210	1.00	0.5	35.8	100.0
1N5369	51.0	48.45	53.55	25.0	27.0	230	1.00	0.5	38.8	93.0
1N5370	56.0	53.20	58.80	20.0	35.0	280	1.00	0.5	42.6	86.0
1N5371	60.0	57.00	63.00	20.0	40.0	350	1.00	0.5	42.5	79.0
1N5372	62.0	58.90	65.10	20.0	42.0	400	1.00	0.5	47.1	76.0
1N5373	68.0	64.60	71.40	20.0	44.0	500	1.00	0.5	51.7	70.0
1N5374	75.0	71.25	78.75	20.0	45.0	620	1.00	0.5	56.0	63.0
1N5375	82.0	77.90	86.10	15.0	65.0	720	1.00	0.5	62.2	58.0
1N5376	87.0	82.65	91.35	15.0	75.0	760	1.00	0.5	66.0	54.5
1N5377	91.0	86.45	95.55	15.0	75.0	760	1.00	0.5	69.2	52.5
1N5378	100.0	95.00	105.00	12.0	90.0	800	1.00	0.5	76.0	47.5
1N5379	110.0	104.50	115.50	12.0	125.0	1000	1.00	0.5	83.6	43.0
1N5380	120.0	114.00	126.00	10.0	170.0	1150	1.00	0.5	91.2	39.5
1N5381	130.0	123.50	136.50	10.0	190.0	1250	1.00	0.5	98.8	36.6
1N5382	140.0	133.00	147.00	8.0	230.0	1500	1.00	0.5	106.0	34.0
1N5383	150.0	142.50	157.50	8.0	330.0	1500	1.00	0.5	114.0	31.6
1N5384	160.0	152.00	168.00	8.0	350.0	1650	1.00	0.5	122.0	29.4
1N5385	170.0	161.50	178.50	8.0	380.0	1750	1.00	0.5	129.0	28.0
1N5386	180.0	171.00	189.00	5.0	430.0	1750	1.00	0.5	137.0	26.4
1N5387	190.0	180.50	199.50	5.0	450.0	1850	1.00	0.5	144.0	25.0
1N5388	200.0	190.00	210.00	5.0	480.0	1850	1.00	0.5	152.0	23.6

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