

Surface Mount SILICON ZENER DIODES

Zener Voltage 3.6 ~ 36 V
 1.0 Watt Power Dissipation

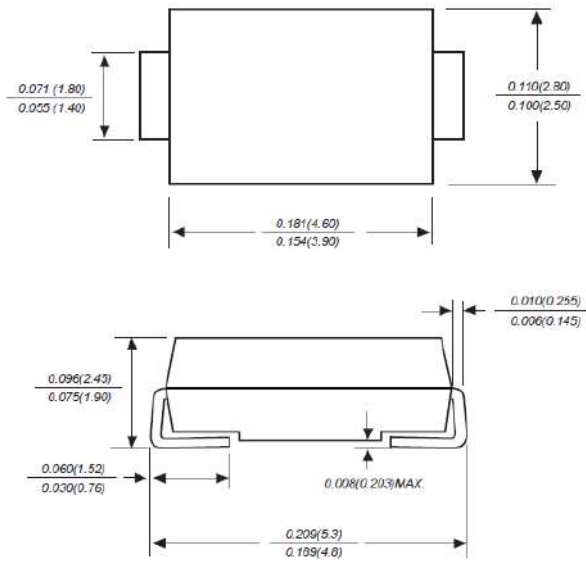
Features

- 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-214AC 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

DO-214AC(SMA)



Unit: inch(mm)

Parameter	Symbols	Value	Unit
DC Power dissipation at $T_L = 75\text{ }^\circ\text{C}^{(1)}$	P_D	1.0	W
Maximum forward voltage at $I_F=200\text{mA}$	V_F	1.2	V
Junction temperature range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$
Storage temperature range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

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)

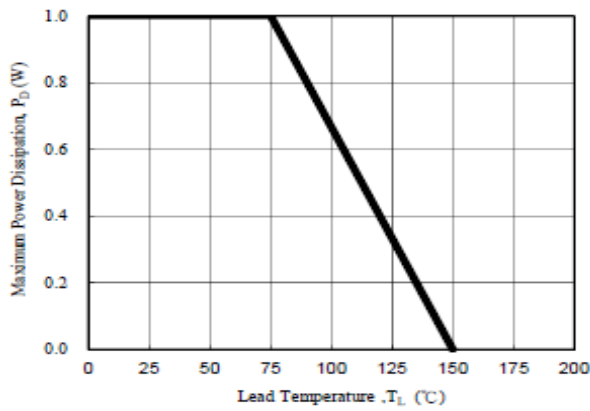


Fig. 1 - Power Temperature Derating Curve

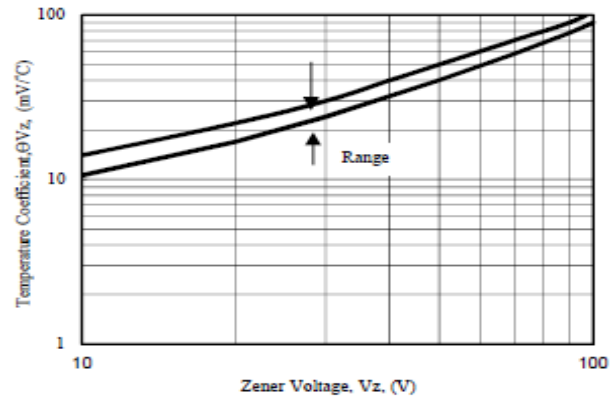


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

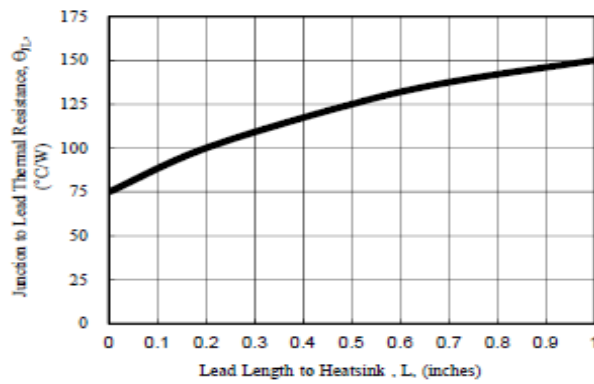


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

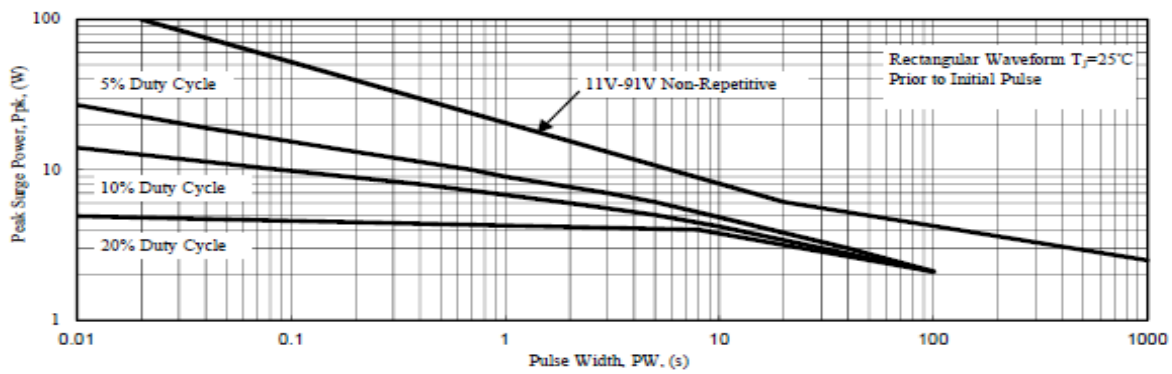


Fig. 4 - Maximum Surge Power



PTZxxB-V Series

Part Number	Device Marking Code	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current	
		V _{Z MIN.} (V)	V _{Z TYP.} (V)	V _{Z MAX.} (V)		Z _{ZT MAX.} (Ω) @I _{ZT}	Z _{ZK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (uA)@V _R	V _R (V)
PTZ3.6B-V	3.6B	3.600	3.813	4.000	40	15.0	60.0	0.50	60	1.00
PTZ3.9B-V	3.9B	3.900	4.136	4.400	40	15.0	60.0	0.50	40	1.00
PTZ4.3B-V	4.3B	4.300	4.572	4.800	40	15.0	60.0	0.50	20	1.00
PTZ4.7B-V	4.7B	4.700	4.924	5.200	40	15.0	60.0	0.50	20	1.00
PTZ5.1B-V	5.1B	5.100	5.368	5.700	40	15.0	80.0	0.50	20	1.50
PTZ5.6B-V	5.6B	5.600	5.856	6.300	40	15.0	80.0	0.50	20	2.50
PTZ6.2B-V	6.2B	6.200	6.509	7.000	40	15.0	80.0	0.50	20	3.00
PTZ6.8B-V	6.8B	6.800	7.280	7.700	40	20.0	80.0	0.50	20	3.50
PTZ7.5B-V	7.5B	7.500	7.889	8.400	40	20.0	80.0	0.50	20	4.00
PTZ8.2B-V	8.2B	8.200	8.655	9.300	40	20.0	100.0	0.50	20	5.00
PTZ9.1B-V	9.1B	9.100	9.747	10.200	40	25.0	100.0	0.50	20	6.00
PTZ10B-V	10B	10.000	10.310	11.200	40	30.0	120.0	0.50	10	7.00
PTZ11B-V	11B	11.000	11.510	12.300	20	40.0	150.0	0.50	10	8.00
PTZ12B-V	12B	12.000	12.500	13.500	20	40.0	200.0	0.50	10	9.00
PTZ13B-V	13B	13.300	13.820	15.000	20	40.0	250.0	0.50	10	10.00
PTZ15B-V	14B	14.700	15.350	16.500	20	60.0	300.0	0.50	10	11.00
PTZ16B-V	16B	16.200	16.860	18.300	20	60.0	700.0	0.50	10	12.00
PTZ18B-V	18B	18.000	19.000	20.300	20	60.0	750.0	0.50	10	13.00
PTZ20B-V	20B	20.000	20.820	22.400	20	80.0	750.0	0.50	10	15.00
PTZ22B-V	22B	22.000	23.850	24.500	10	80.0	750.0	0.50	10	17.00
PTZ24B-V	24B	24.000	25.310	27.600	10	80.0	750.0	0.50	10	19.00
PTZ27B-V	27B	27.000	28.700	30.800	10	100.0	750.0	0.50	10	21.00
PTZ30B-V	30B	30.000	31.570	34.000	10	100.0	1000.0	0.50	10	23.00
PTZ33B-V	33B	33.000	34.950	37.000	10	100.0	1000.0	0.50	10	25.00
PTZ36B-V	36B	36.000	39.240	40.000	10	100.0	1000.0	0.50	10	27.00