

PTZ3.6B - PTZ36B

SURFACE MOUNT SILICON ZENER DIODES

V_Z : 3.6 - 36 Volts

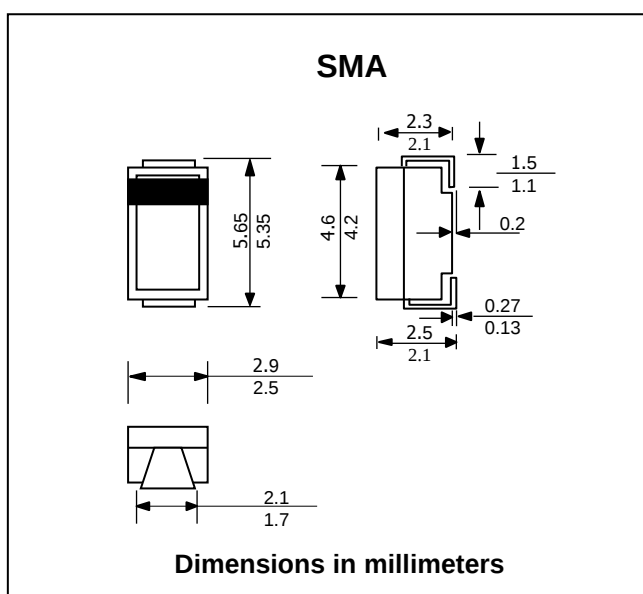
P_D : 1.0 Watts

FEATURES :

- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.060 gram (Approximately)

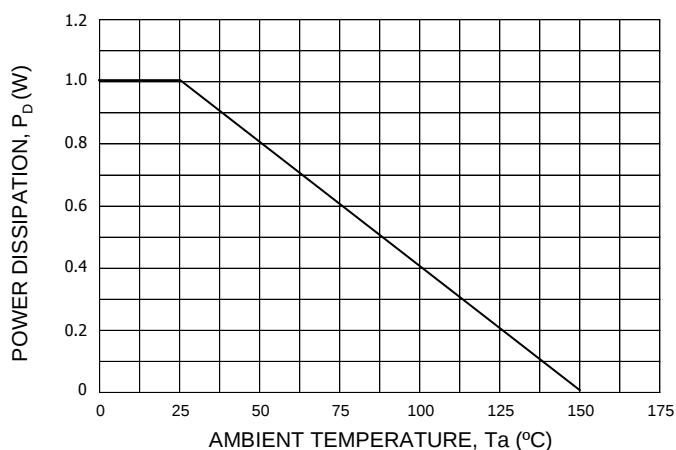


MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
Power Dissipation	P_D	1.0	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

Fig. 1 POWER TEMPERATURE DERATING CURVE



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Type	Zener Voltage			Test Current	Maximum Zener		Maximum		Typical Temperature	
					Impedance		Reverse Current		Coefficient	
	V _Z (V)			I _{ZT}	Z _Z	@ I _Z	I _R	@ V _R	γ _Z	I _Z
	MIN.	TYP.	MAX.	(mA)	(Ω)	(mA)	(μA)	(V)	(mV/°C)	(mA)
PTZ3.6B	3.6	3.813	4.00	40	15	40	60	1.0	-2.8	40
PTZ3.9B	3.9	4.136	4.40	40	15	40	40	1.0	-2.4	40
PTZ4.3B	4.3	4.572	4.80	40	15	40	20	1.0	-2.1	40
PTZ4.7B	4.7	4.924	5.20	40	10	40	20	1.0	-1.7	40
PTZ5.1B	5.1	5.368	5.70	40	8	40	20	1.5	-0.6	40
PTZ5.6B	5.6	5.856	6.30	40	8	40	20	2.5	1.4	40
PTZ6.2B	6.2	6.509	7.00	40	6	40	20	3.0	2.5	40
PTZ6.8B	6.8	7.280	7.70	40	6	40	20	3.5	3.2	40
PTZ7.5B	7.5	7.889	8.40	40	4	40	20	4.0	4.2	40
PTZ8.2B	8.2	8.655	9.30	40	4	40	20	5.0	5.0	40
PTZ9.1B	9.1	9.747	10.2	40	6	40	20	6.0	5.9	40
PTZ10B	10.0	10.31	11.2	40	6	40	10	7.0	6.9	40
PTZ11B	11.0	11.51	12.3	20	8	20	10	8.0	7.9	20
PTZ12B	12.0	12.50	13.5	20	8	20	10	9.0	8.7	20
PTZ13B	13.3	13.82	15.0	20	10	20	10	10.0	10.1	20
PTZ15B	14.7	15.35	16.5	20	10	20	10	11.0	11.8	20
PTZ16B	16.2	16.86	18.3	20	12	20	10	12.0	13.3	20
PTZ18B	18.0	19.00	20.3	20	12	20	10	13.0	15.0	20
PTZ20B	20.0	20.82	22.4	20	14	20	10	15.0	17.4	20
PTZ22B	22.0	23.85	24.5	10	14	10	10	17.0	19.4	10
PTZ24B	24.0	25.31	27.6	10	16	10	10	19.0	21.6	10
PTZ27B	27.0	28.70	30.8	10	16	10	10	21.0	24.6	10
PTZ30B	30.0	31.57	34.0	10	18	10	10	23.0	27.5	10
PTZ33B	33.0	34.95	37.0	10	18	10	10	25.0	30.8	10
PTZ36B	36.0	39.24	40.0	10	20	10	10	27.0	37.0	10

Note :

(1) The Zener Voltage V_Z is measured 40 ms after power is supplied.