

# PTZ3.6B - PTZ36B

# SURFACE MOUNT SILICON ZENER DIODES

**V<sub>Z</sub> : 3.6 - 36 Volts**

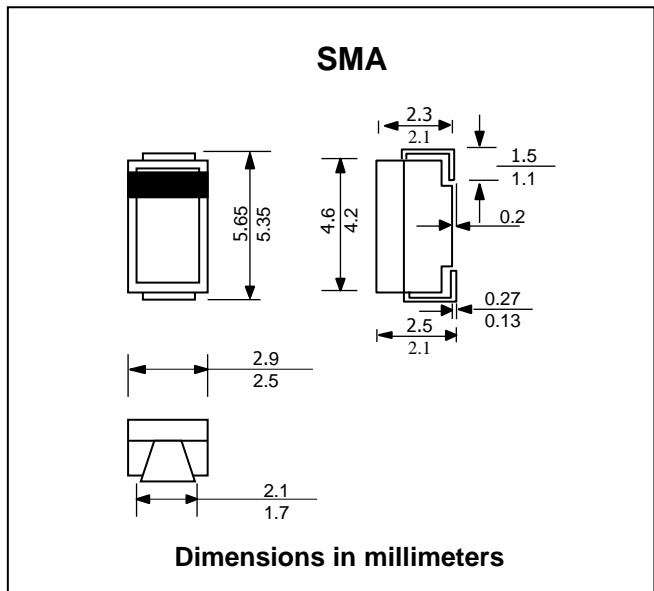
**P<sub>D</sub> : 1.0 Watts**

### 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)

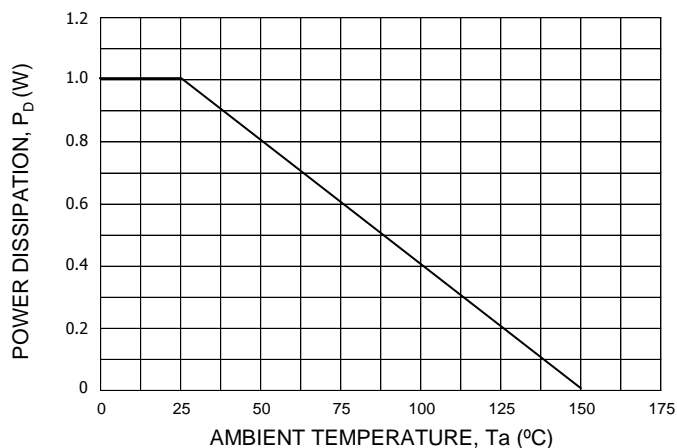


### MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
Power Dissipation	P <sub>D</sub>	1.0	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150	°C

**Fig. 1 POWER TEMPERATURE DERATING CURVE**



## ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Type	Zener Voltage			Test Current I <sub>ZT</sub>	Maximum Zener Impedance		Maximum Reverse Current		Typical Temperature Coefficient	
	V <sub>Z</sub> (V)				Z <sub>Z</sub>	@ I <sub>Z</sub>	I <sub>R</sub>	@ V <sub>R</sub>	γ <sub>Z</sub>	I <sub>Z</sub>
	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<sub>Z</sub> is measured 40 ms after power is supplied.