

1. PRODUCT Zener Diode
2. TYPE PTZ Series (3.6V ~ 36V)
3. APPLICATION Voltage regulation
4. FEATURE Small power mold type
5. ABSOLUTE MAXIMUM RATING (Ta=25°C)

Power dissipation	P		1000 mW
Junction temperature	Tj		150 °C
Storage temperature	Tstg		-55~150 °C
6. ELECTRICAL CHARACTERISTIC (Ta=25°C)

TYPE	Zener voltage				Dinamic impedance		Reverse current	
		Vz (V)			Zz (Ω)		IR (μA)	
		MIN.	MAX.	Iz (mA)	MAX.	Iz (mA)	MAX.	VR (V)
PTZ 3.6	A	3.400	3.800	40	15	40	60	1.0
	B	3.600	4.000					
PTZ 3.9	A	3.700	4.100	40	15	40	40	1.0
	B	3.900	4.400					
PTZ 4.3	A	4.000	4.500	40	15	40	20	1.0
	B	4.300	4.800					
PTZ 4.7	A	4.400	4.900	40	10	40	20	1.0
	B	4.700	5.200					
PTZ 5.1	A	4.800	5.400	40	8	40	20	1.0
	B	5.100	5.700					
PTZ 5.6	A	5.300	6.000	40	8	40	20	1.5
	B	5.600	6.300					
PTZ 6.2	A	5.800	6.600	40	6	40	20	3.0
	B	6.200	7.000					
PTZ 6.8	A	6.400	7.200	40	6	40	20	3.5
	B	6.800	7.700					
PTZ 7.5	A	7.000	7.900	40	4	40	20	4.0
	B	7.500	8.400					
PTZ 8.2	A	7.700	8.700	40	4	40	20	5.0
	B	8.200	9.300					
PTZ 9.1	A	8.500	9.600	40	6	40	20	6.0
	B	9.100	10.200					
PTZ 10	A	9.400	10.600	40	6	40	10	7.0
	B	10.000	11.200					
PTZ 11	A	10.400	11.600	20	8	20	10	8.0
	B	11.000	12.300					
PTZ 12	A	11.400	12.600	20	8	20	10	9.0
	B	12.000	13.500					
PTZ 13	A	12.400	14.100	20	10	20	10	10.0
	B	13.300	15.000					
PTZ 15	A	13.800	15.600	20	10	20	10	11.0
	B	14.700	16.500					

DESIGN	CHECK	APPROVAL	DATE : 16.JUN.2010	SPECIFICATION No. : PTZseries-E
<i>K. Yamada</i>		<i>T. Kishida</i>	REV. : A	ROHM Co., Ltd.

TYPE	Zener voltage				Dinamic impedance		Reverse current	
		V z (V)			Z z (Ω)		I R (μ A)	
		MIN.	MAX.	Iz (mA)	MAX.	Iz (mA)	MAX.	VR (V)
PTZ 16	A	15.300	17.100	20	12	20	10	12.0
	B	16.200	18.300					
PTZ 18	A	16.800	19.100	20	12	20	10	13.0
	B	18.000	20.300					
PTZ 20	A	18.800	21.200	20	14	20	10	15.0
	B	20.000	22.400					
PTZ 22	A	20.800	23.300	10	14	10	10	17.0
	B	22.000	24.500					
PTZ 24	A	22.800	25.600	10	16	10	10	19.0
	B	24.000	27.600					
PTZ 27	A	25.100	28.900	10	16	10	10	21.0
	B	27.000	30.800					
PTZ 30	A	28.000	32.000	10	18	10	10	23.0
	B	30.000	34.000					
PTZ 33	A	31.000	35.000	10	18	10	10	25.0
	B	33.000	37.000					
PTZ 36	A	34.000	38.000	10	20	10	10	27.0
	B	36.000	40.000					

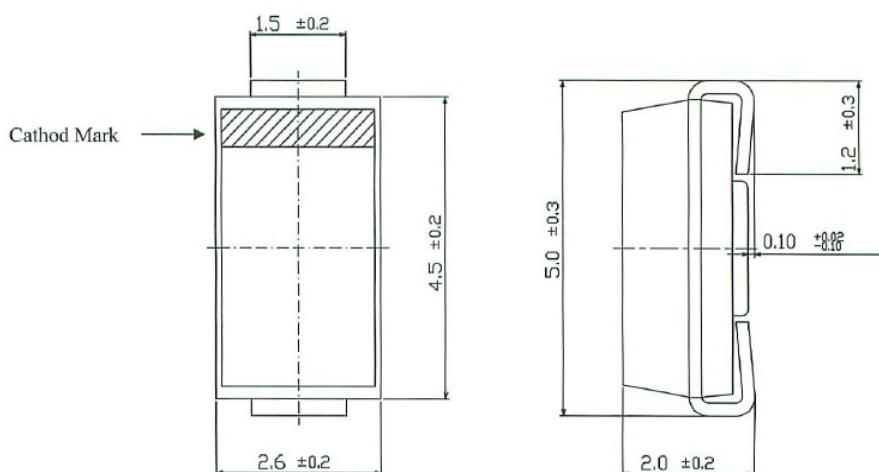
(1) Small classification of zener voltage (V_z) shall be measured at 40ms after loading current.

(2) Dynamic resistance (Z_z) shall be measured by applying very small AC current and specified current (I_z) simultaneously.

7. DIMENSION (UNIT : mm)

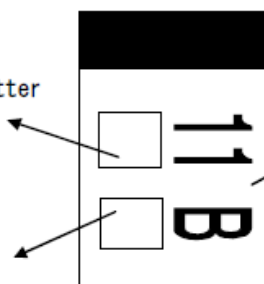
PMDS(SMA) PKG

Marking Side



8. MARKING (EX)

This is the sign which shows the letter
two digit of the production year



「11B」 is the sign which shows PTZ11B

This is the sign which shows production month

MARKING(TYPE No.)

TYPE	TYPE NO.			TYPE	TYPE NO.		
	1st	2nd			1st	2nd	
		A	B			A	B
PTZ 3.6	3.6	A	B	PTZ 11	11	A	B
PTZ 3.9	3.9	A	B	PTZ 12	12	A	B
PTZ 4.3	4.3	A	B	PTZ 13	13	A	B
PTZ 4.7	4.7	A	B	PTZ 15	15	A	B
PTZ 5.1	5.1	A	B	PTZ 16	16	A	B
PTZ 5.6	5.6	A	B	PTZ 18	18	A	B
PTZ 6.2	6.2	A	B	PTZ 20	20	A	B
PTZ 6.8	6.8	A	B	PTZ 22	22	A	B
PTZ 7.5	7.5	A	B	PTZ 24	24	A	B
PTZ 8.2	8.2	A	B	PTZ 27	27	A	B
PTZ 9.1	9.1	A	B	PTZ 30	30	A	B
PTZ 10	10	A	B	PTZ 33	33	A	B
				PTZ 36	36	A	B