

Specification TENTATIVE	Products ZENER DIODE	Type PTZ Series
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1. PRODUCTS ZENER DIODE
2. TYPE PTZ Series
3. APPLICATION Voltage regulation
4. FEATURES Surface mount devices

5. ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Power dissipation	P	1000 mW
Junction temperature	Tj	150 °C
Storage temperature	Tstg	-40~150 °C

6. ELECTRICAL CHARACTERISTICS (Ta=25°C)

Type No.	Small classification of zener voltage			Dynamic impedance		Reverse current	
	Vz (V)			Zz (Ω)		IR (μA)	
		MIN.	MAX.	Iz (mA)	MAX.	Iz (mA)	VR (V)
PTZ 2.0	A	1.880	2.120	40	25	40	200
	B	2.000	2.240				
PTZ 2.2	A	2.080	2.330	40	20	40	200
	B	2.200	2.450				
PTZ 2.4	A	2.280	2.560	40	15	40	200
	B	2.400	2.700				
PTZ 2.7	A	2.500	2.900	40	15	40	200
	B	2.700	3.100				
PTZ 3.0	A	2.800	3.200	40	15	40	100
	B	3.000	3.400				
PTZ 3.3	A	3.100	3.500	40	15	40	80
	B	3.300	3.700				
PTZ 3.6	A	3.400	3.800	40	15	40	60
	B	3.600	4.000				
PTZ 3.9	A	3.700	4.100	40	15	40	40
	B	3.900	4.400				
PTZ 4.3	A	4.000	4.500	40	15	40	20
	B	4.300	4.800				
PTZ 4.7	A	4.400	4.900	40	10	40	20
	B	4.700	5.200				

ROHM CO., LTD.

Design

T. Kimura

Approval

Specification No.

THIS PRODUCT HAS BEEN PRODUCED WITH TENTATIVE SPECIFICATIONS. THE SPECIFICATIONS FOR VOLUME PRODUCTION PRODUCTS ARE SUBJECT TO CHANGE. PLEASE CONDUCT THE EVALUATION USING DRAWING FOR APPROVAL WHEN YOU APPROVE IT OFFICIALLY.

Date

11/20/92

Specification

Products

ZENER DIODE

Type

PTZ Series

Type No.	Small classification of zener voltage			Dynamic impedance		Reverse current	
		V _z (V)		Z _z (Ω)		I _R (μA)	
		MIN.	MAX.	I _z (mA)	MAX.	I _z (mA)	MAX. VR (V)
PTZ 5.1	A	4.800	5.400	40	8	40	20
	B	5.100	5.700				
PTZ 5.6	A	5.300	6.000	40	8	40	20
	B	5.600	6.300				
PTZ 6.2	A	5.800	6.600	40	6	40	20
	B	6.200	7.000				
PTZ 6.8	A	6.400	7.200	40	6	40	20
	B	6.800	7.700				
PTZ 7.5	A	7.000	7.900	40	4	40	20
	B	7.500	8.400				
PTZ 8.2	A	7.700	8.700	40	4	40	20
	B	8.200	9.300				
PTZ 9.1	A	8.500	9.600	40	6	40	20
	B	9.100	10.200				
PTZ 10	A	9.400	10.600	40	6	40	10
	B	10.000	11.200				
PTZ 11	A	10.400	11.600	20	8	20	10
	B	11.000	12.300				
PTZ 12	A	11.400	12.600	20	8	20	10
	B	12.000	13.500				
PTZ 13	A	12.400	14.100	20	10	20	10
	B	13.300	15.000				
PTZ 15	A	13.800	15.600	20	10	20	10
	B	14.700	16.500				
PTZ 16	A	15.300	17.100	20	12	20	10
	B	16.200	18.300				
PTZ 18	A	16.800	19.100	20	12	20	10
	B	18.000	20.300				
PTZ 20	A	18.800	21.200	20	14	20	10
	B	20.000	22.400				

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PTZ Series

Type No.	Small classification of zener voltage				Dynamic impedance		Reverse current	
		V _z (V)			Z _z (Ω)		I _R (μA)	
		MIN.	MAX.	I _z (mA)	MAX.	I _z (mA)	MAX.	V _R (V)
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					
PTZ 39	A	37.000	41.000	10	50	10	10	30.0
PTZ 43	A	40.000	46.000	10	50	10	5	33.0
PTZ 47	A	44.000	50.000	10	50	10	5	36.0
PTZ 51	A	48.000	54.000	10	50	10	5	39.0
PTZ 56	A	52.000	60.000	10	50	10	5	43.0
PTZ 62	A	58.000	66.000	10	50	10	5	47.0
PTZ 68	A	64.000	72.000	10	70	10	5	52.0
PTZ 75	A	70.000	80.000	10	90	10	5	57.0
PTZ 82	A	77.000	87.000	10	90	10	5	63.0

- (1) Small classification of zener voltage(V_z) shall be measured at 40msec after loading current.
- (2) Dynamic resistance(Z_z,Z_{zk})shall be measured by applying very small AC current and specified current(I_z) simultaneously.

Specification

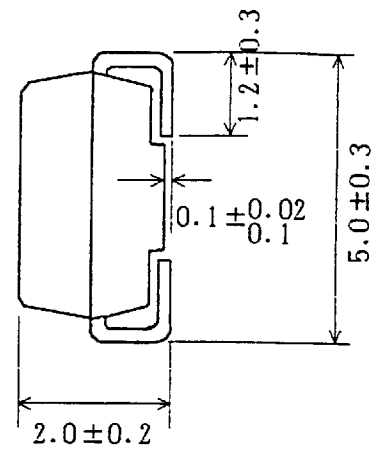
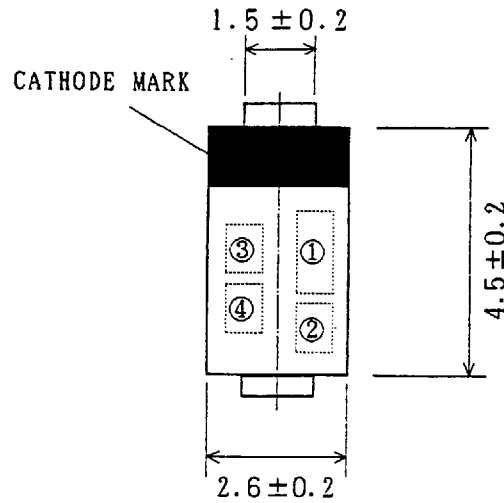
Products

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7. DIMENSIONS (UNIT:mm)



※ ①, ② Type No.

EX. PTZ2.0A → 2.0 , A

③, ④ Manufacturing date

EX. 1992. 7 → 2 , 7