Zener diode

PTZ Series

Applications

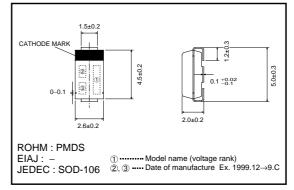
- 1) Voltage regulation and voltage limiting.
- 2) Voltage surge absorption.

Features

Construction Silicon epitaxial planar

- 1) Small surface mounting type. (PMDS)
- 2) 1W of power can be obtained despite compact size.
- 3) High surge withstand level.

•External dimensions (Unit : mm)



•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit				
Power dissipation *	Р	1	W				
Junction temperature	Tj	150	°C				
Storage temperature	Tstg	-55 to +150	°C				

* Mounting density of other power components should be taken into consideration when laying out the pattern.

•Marking (Voltage rank)

Type No.	1	Type No.	1	Type No.	1	
PTZ3.6B	3.6 B	PTZ8.2B	8.2 B	PTZ20B	20 B	
PTZ3.9B	3.9 B	PTZ9.1B	9.1 B	PTZ22B	22 B	
PTZ4.3B	4.3 B	PTZ10B	10 B	PTZ24B	24 B	
PTZ4.7B	4.7 B	PTZ11B	11 B	PTZ27B	27 B	
PTZ5.1B	5.1 B	PTZ12B	12 B	PTZ30B	30 B	
PTZ5.6B	5.6 B	PTZ13B	13 B	PTZ33B	33 B	
PTZ6.2B	6.2 B	PTZ15B	15 B	PTZ36B	36 B	
PTZ6.8B	6.8 B	PTZ16B	16 B	_	-	
PTZ7.5B	7.5 B	PTZ18B	18 B	-	-	

1999 Dec.

(Ex.) PTZ3.6B



1) Zener voltage category 2)Year of manufacture: last Ex.) PTZ3.6B digit of Western calendar 3 Month of manufacture

Month Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov Svmbol



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PTZ Series

Diodes

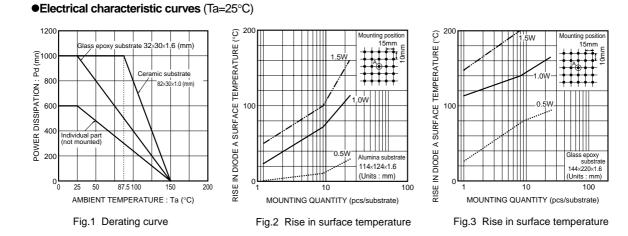
•Electrical characteristics (Ta=25°C)

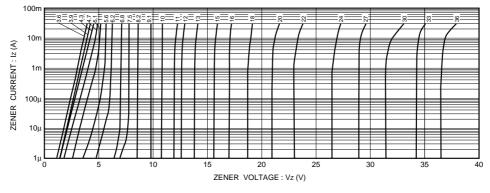
	Zener voltage subdivision		Operating resistance Zz (Ω)		Reverse current Ι _R (μΑ)		
Туре	Vz (V)						
	Min.	Max.	Iz (mA)	Max.	lz (mA)	Max.	Vr (V)
PTZ 3.6B	3.600	4.000	40	15	40	20	1.0
PTZ 3.9B	3.900	4.400	40	15	40	20	1.0
PTZ 4.3B	4.300	4.800	40	15	40	20	1.0
PTZ 4.7B	4.700	5.200	40	10	40	20	1.0
PTZ 5.1B	5.100	5.700	40	8	40	20	1.0
PTZ 5.6B	5.600	6.300	40	8	40	20	1.5
PTZ 6.2B	6.200	7.000	40	6	40	20	3.0
PTZ 6.8B	6.800	7.700	40	6	40	20	3.5
PTZ 7.5B	7.500	8.400	40	4	40	20	4.0
PTZ 8.2B	8.200	9.300	40	4	40	20	5.0
PTZ 9.1B	9.100	10.200	40	6	40	20	6.0
PTZ 10B	10.000	11.200	40	6	40	10	7.0
PTZ 11B	11.000	12.300	20	8	20	10	8.0
PTZ 12B	12.000	13.500	20	8	20	10	9.0
PTZ 13B	13.300	15.000	20	10	20	10	10.0
PTZ 15B	14.700	16.500	20	10	20	10	11.0
PTZ 16B	16.200	18.300	20	12	20	10	12.0
PTZ 18B	18.000	20.300	20	12	20	10	13.0
PTZ 20B	20.000	22.400	20	14	20	10	15.0
PTZ 22B	22.000	24.500	10	14	10	10	17.0
PTZ 24B	24.000	27.600	10	16	10	10	19.0
PTZ 27B	27.000	30.800	10	16	10	10	21.0
PTZ 30B	30.000	34.000	10	18	10	10	23.0
PTZ 33B	33.000	37.000	10	18	10	10	25.0
PTZ 36B	36.000	40.000	10	20	10	10	27.0

Notes) 1. The Zener voltage is measured 40ms after power is supplied.
2. The operating resistances (Zz, Zzk) are measured by superimposing a minute alternating current on the regulated current (lz).



Diodes







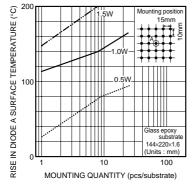


Fig.3 Rise in surface temperature



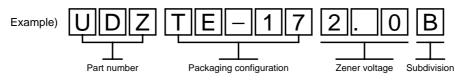
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Diodes

•Makeup of the part number

- Please follow the part number designation when the order is placed.
- Fill in from the left, leaving any extra boxes empty on the right.
- Please refer packing specification about packing form.

•Zener diodes





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