ZM-PTZ3.6B ~ ZM-PTZ36B

SILICON EPITAXIAL PLANAR ZENER DIODES

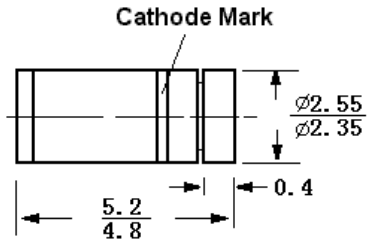
LL-41

Features

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

Applications

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



Glass case MELF

Weight approx.0.25g
Dimensions in mm

Absolute Maximum Ratings (T_a = 25°C)

	Symbol	Value	Unit
Power Dissipation [1]	P_{tot}	1	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_S	-55 to +150	°C

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

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TYPE	Zener Voltage Range Vz (V)			Operating Resistance Zz (Ω)		Reverse current I_R (uA)	
	Min.	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	V_R (V)
ZM-PTZ3.6B	3.6	4	40	15	40	20	1
ZM-PTZ3.9B	3.9	4.4	40	15	40	20	1
ZM-PTZ4.3B	4.3	4.8	40	15	40	20	1
ZM-PTZ4.7B	4.7	5.2	40	10	40	20	1
ZM-PTZ5.1B	5.1	5.7	40	8	40	20	1
ZM-PTZ5.6B	5.6	6.3	40	8	40	20	1.5
ZM-PTZ6.2B	6.2	7	40	6	40	20	3
ZM-PTZ6.8B	6.8	7.7	40	6	40	20	3.5
ZM-PTZ7.5B	7.5	8.4	40	4	40	20	4
ZM-PTZ8.2B	8.2	9.3	40	4	40	20	5
ZM-PTZ9.1B	9.1	10.2	40	6	40	20	6
ZM-PTZ10B	10	11.2	40	6	40	10	7
ZM-PTZ11B	11	12.3	20	8	20	10	8
ZM-PTZ12B	12	13.5	20	8	20	10	9
ZM-PTZ13B	13.3	15	20	10	20	10	10
ZM-PTZ15B	14.7	16.5	20	10	20	10	11
ZM-PTZ16B	16.2	18.3	20	12	20	10	12
ZM-PTZ18B	18	20.3	20	12	20	10	13
ZM-PTZ20B	20	22.4	20	14	20	10	15
ZM-PTZ22B	22	24.5	10	14	10	10	17
ZM-PTZ24B	24	27.6	10	16	10	10	19
ZM-PTZ27B	27	30.8	10	16	10	10	21
ZM-PTZ30B	30	34	10	18	10	10	23
ZM-PTZ33B	33	37	10	18	10	10	25
ZM-PTZ36B	36	40	10	20	10	10	27

1) The Zener voltage is measured 40ms after power is supplied.
2) The operating resistances (Z_Z, Z_{ZK}) are measured by superimposing a minute alternating current on the regulated current (Iz).

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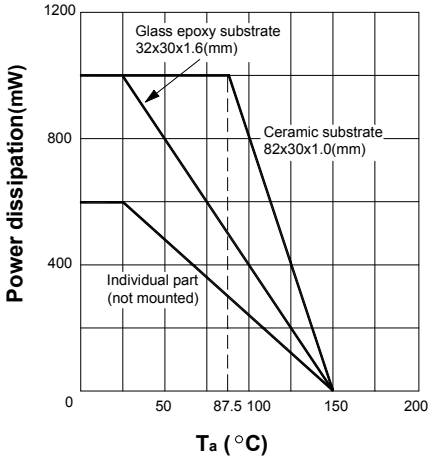
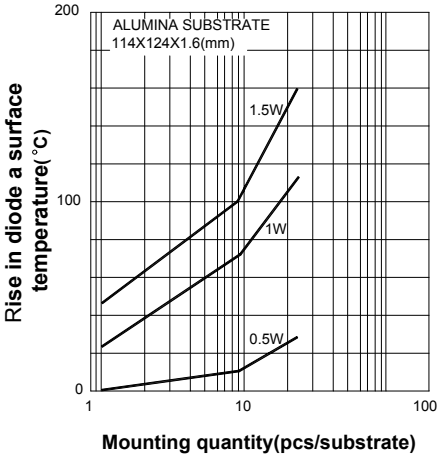
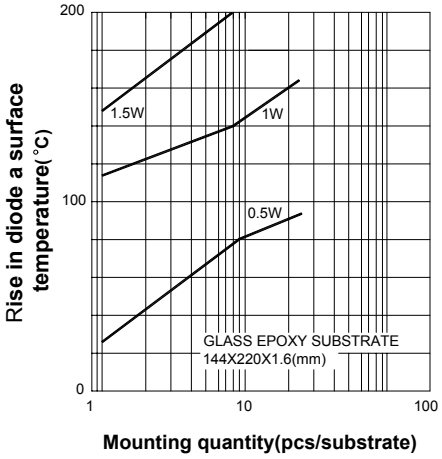
Derating curve



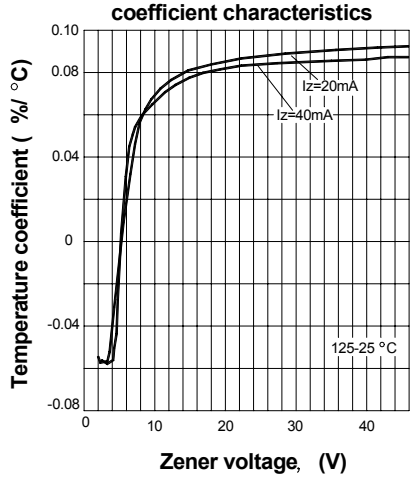
Rise in surface temperature



Rise in surface temperature



Zener voltage - temp. coefficient characteristics



Zener voltage characteristics