

HZM5.6MWA

Silicon Planar Zener Diode for Surge Absorb

REJ03G0212-0100Z

Rev.1.00

Apr.05.2004

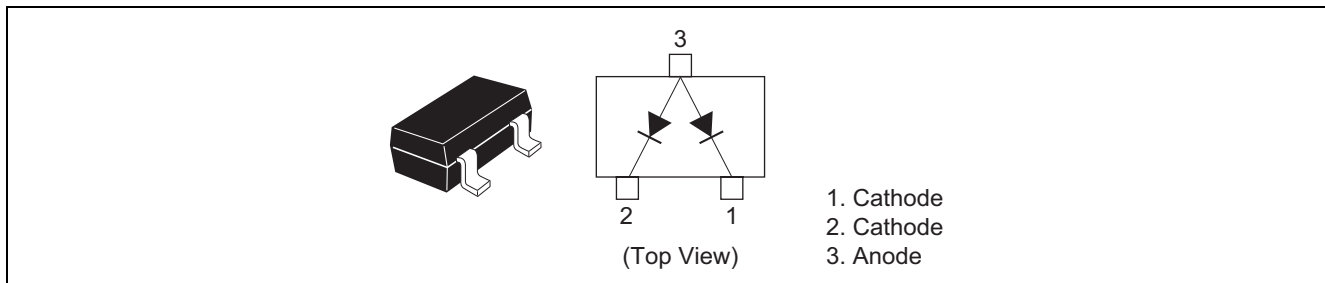
Features

- HZM5.6MWA has Two devices in a monolithic, and can absorb surge.
- High ESD-Capability 30kV, human body model (IEC61000-4-2).
- MPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HZM5.6MWA	56M	MPAK

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd *	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: Two device total, See Fig.2.

Electrical Characteristics *¹

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V _Z	5.31	—	5.92	V	I _Z = 5 mA, 40 ms pulse
Reverse current	I _R	—	—	5	μA	V _R = 2.5 V
Capacitance	C	—	110	—	pF	V _R = 0 V, f = 1 MHz
Dynamic resistance	r _d	—	—	80	Ω	I _Z = 5 mA
ESD-Capability * ² * ³	—	30	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

- Notes: 1. Per one device.
 2. Failure criterion ; I_R > 5 μA at V_R = 2.5 V.
 3. Between cathode anode.

Main Characteristic

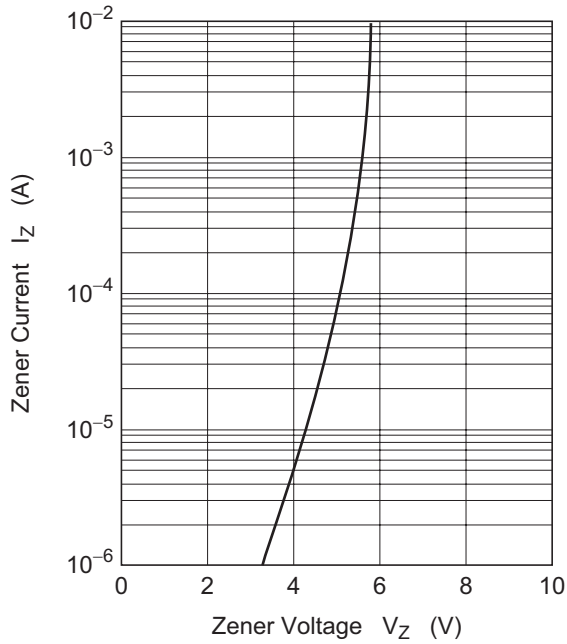


Fig.1 Zener Current vs. Zener Voltage

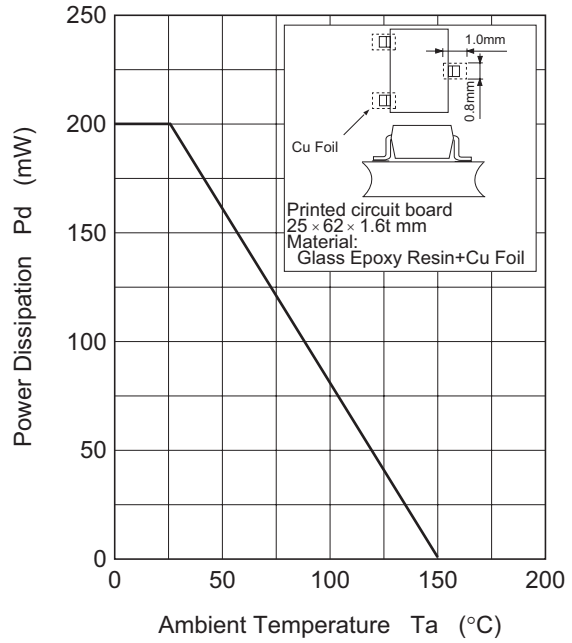


Fig.2 Power Dissipation vs. Ambient Temperature

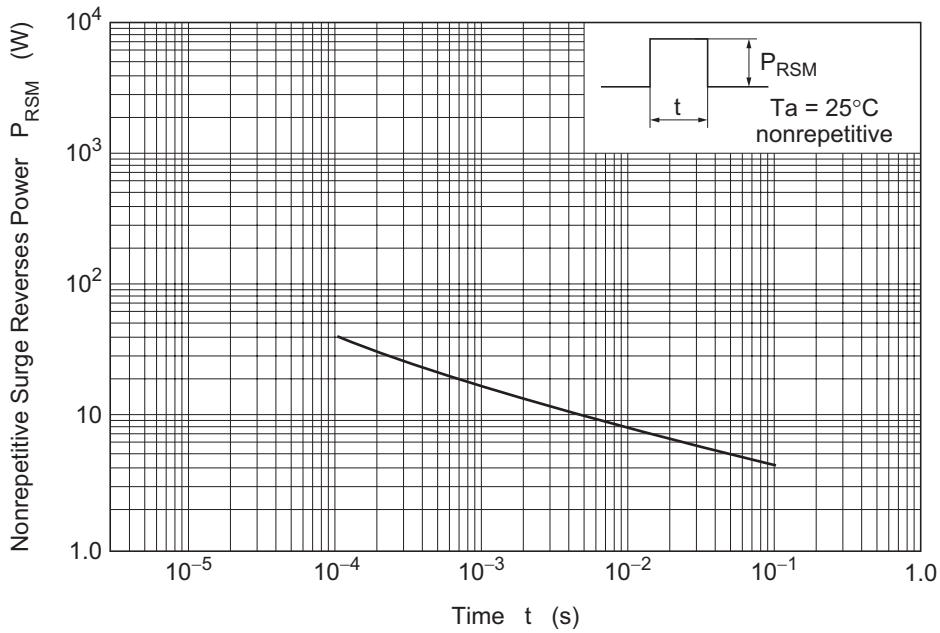
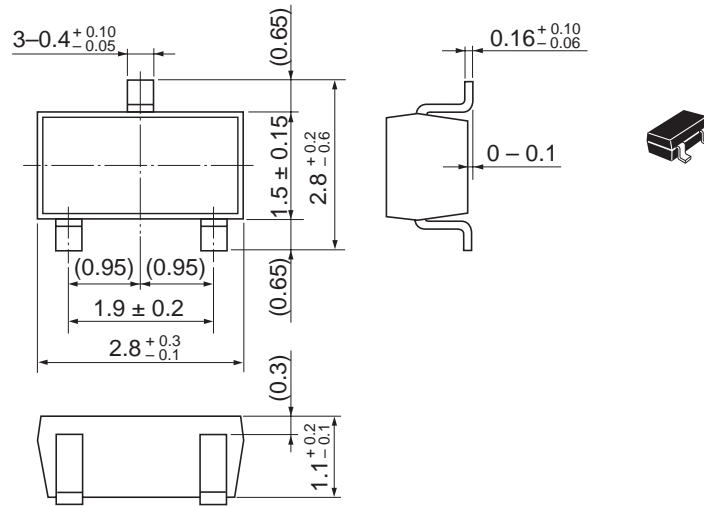


Fig.3 Surge Reverse Power Ratings

Package Dimensions

As of January, 2003
Unit: mm



Package Code	MPAK
JEDEC	—
JEITA	Conforms
Mass (reference value)	0.011 g

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