

## HZM5.6MWA

Silicon Planar Zener Diode for Surge Absorb

REJ03G0212-0100Z

Rev.1.00

Apr.05.2004

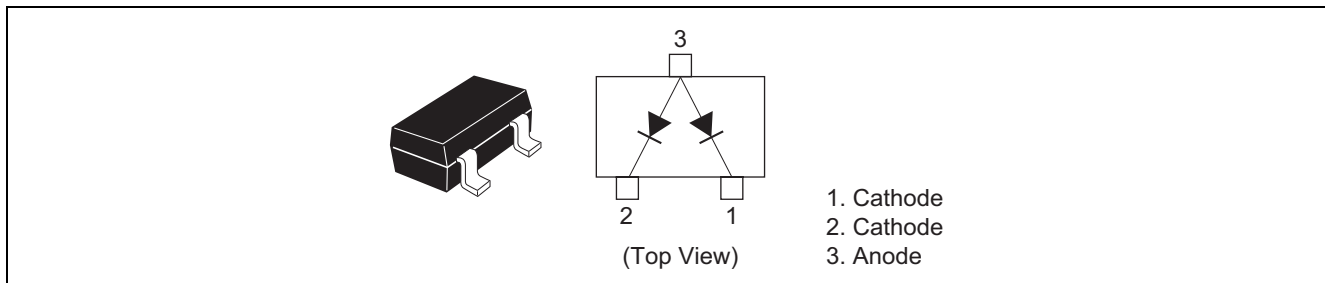
### Features

- 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 <sub>Z</sub>	5.31	—	5.92	V	I <sub>Z</sub> = 5 mA, 40 ms pulse
Reverse current	I <sub>R</sub>	—	—	5	μA	V <sub>R</sub> = 2.5 V
Capacitance	C	—	110	—	pF	V <sub>R</sub> = 0 V, f = 1 MHz
Dynamic resistance	r <sub>d</sub>	—	—	80	Ω	I <sub>Z</sub> = 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<sub>R</sub> > 5 μA at V<sub>R</sub> = 2.5 V.  
 3. Between cathode anode.

Main Characteristic

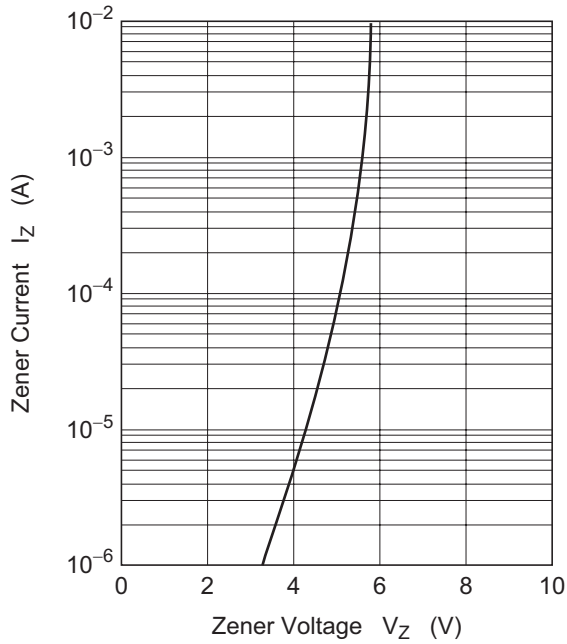


Fig.1 Zener Current vs. Zener Voltage

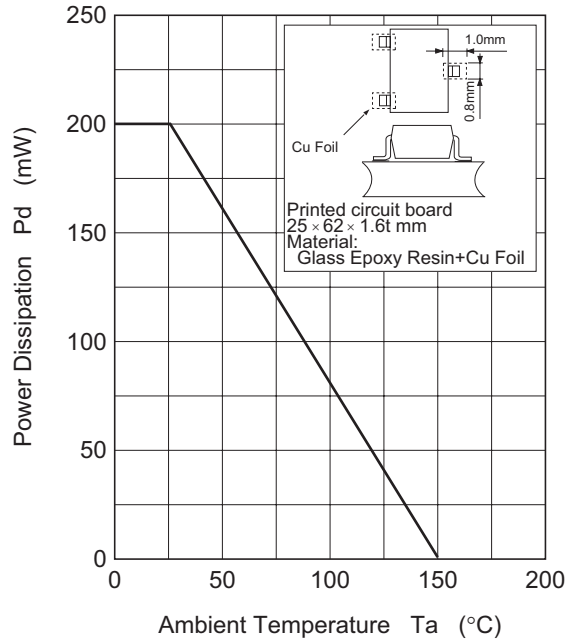


Fig.2 Power Dissipation vs. Ambient Temperature

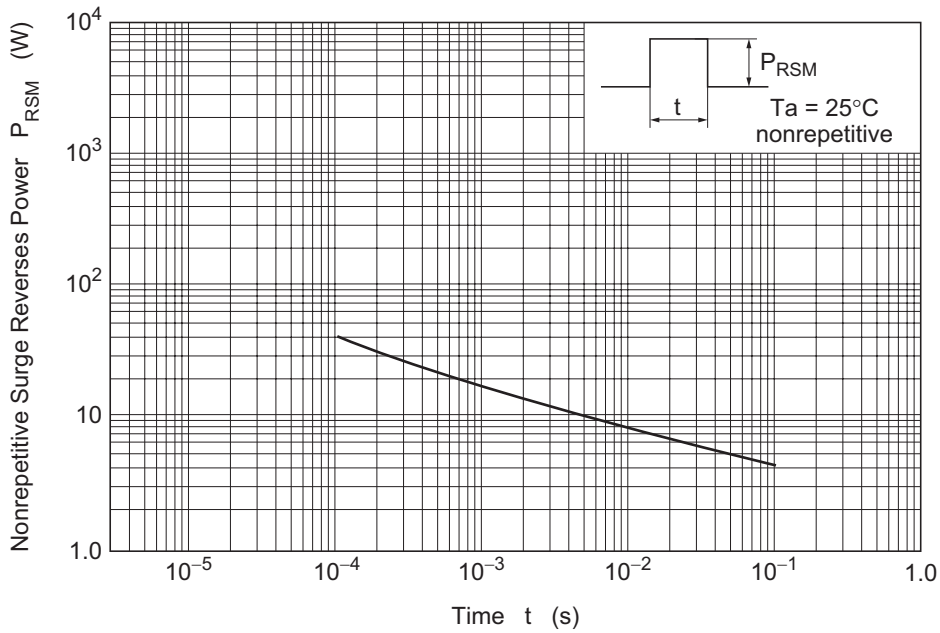
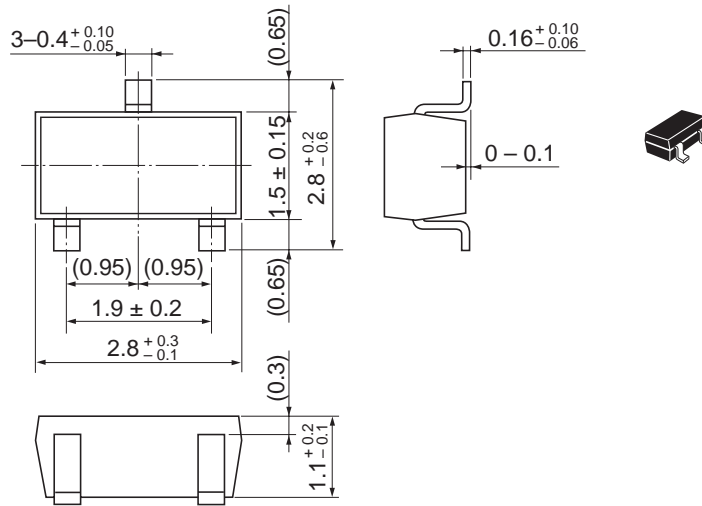


Fig.3 Surge Reverse Power Ratings

Package Dimensions

As of January, 2003  
Unit: mm



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

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