

HZM27WA

Silicon Epitaxial Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-352B (Z)

Rev.2
Nov. 2001

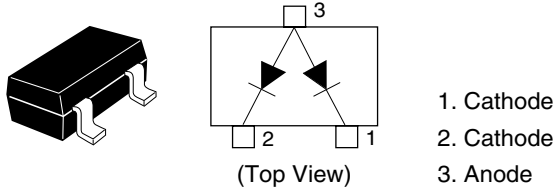
Features

- HZM27WA has two devices, and can absorb external + and -surge.
- MPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HZM27WA	27A	MPAK

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd * ¹	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: 1. Two device total, See Fig.2.

Electrical Characteristics*¹

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V _z	25.10	—	28.90	V	I _z = 2 mA, 40 ms pulse
Reverse current	I _R	—	—	2	μA	V _R = 21 V
Capacitance	C	—	(27) * ²	—	pF	V _R = 0 V, f = 1 MHz
Dynamic resistance	r _d	—	—	70	Ω	I _z = 2 mA
ESD-Capability * ³	—	30	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes: 1. Per one device.

2. Reference only.

3. Failure criterion ; I_R > 2 μA at V_R = 21 V.

Main Characteristic

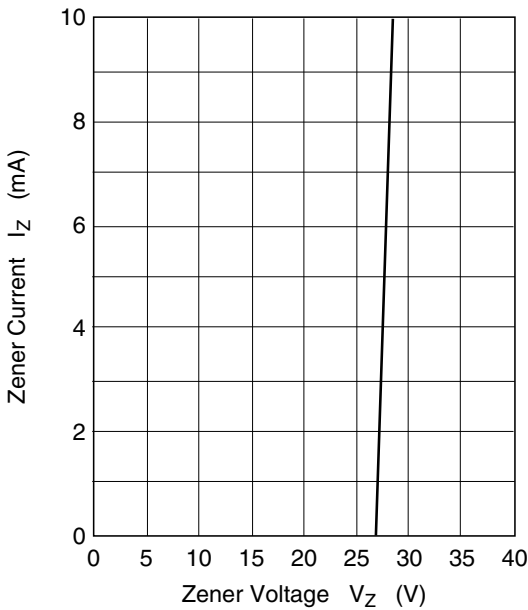


Fig.1 Zener Current vs. Zener Voltage

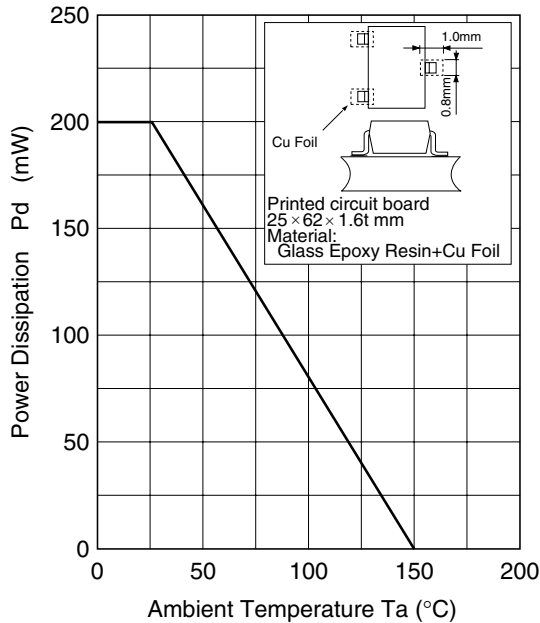


Fig.2 Power Dissipation vs. Ambient Temperature

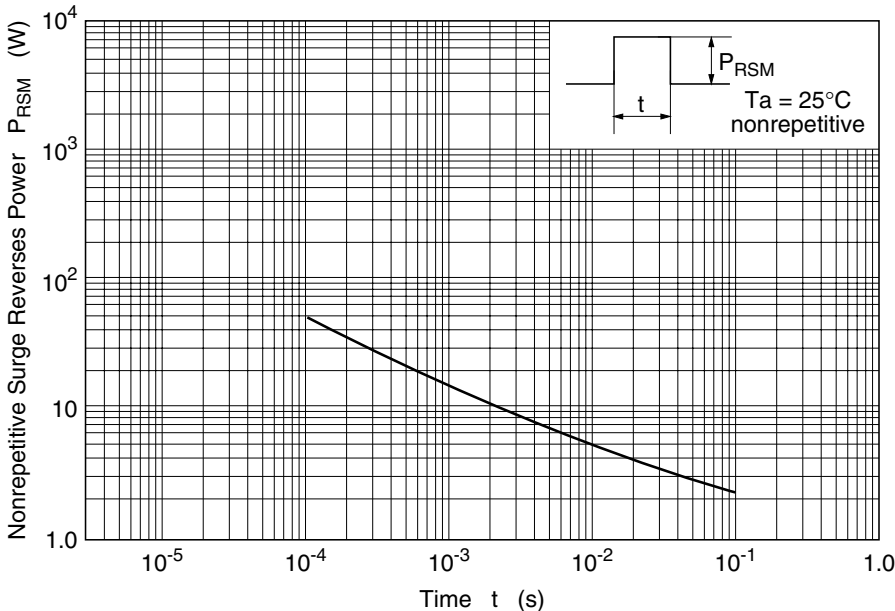


Fig.3 Surge Reverse Power Ratings

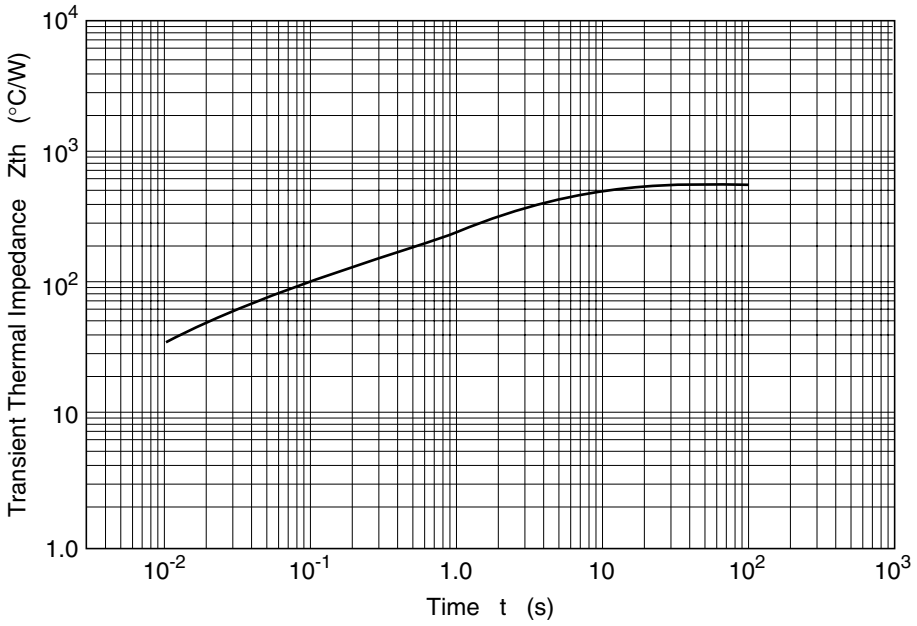
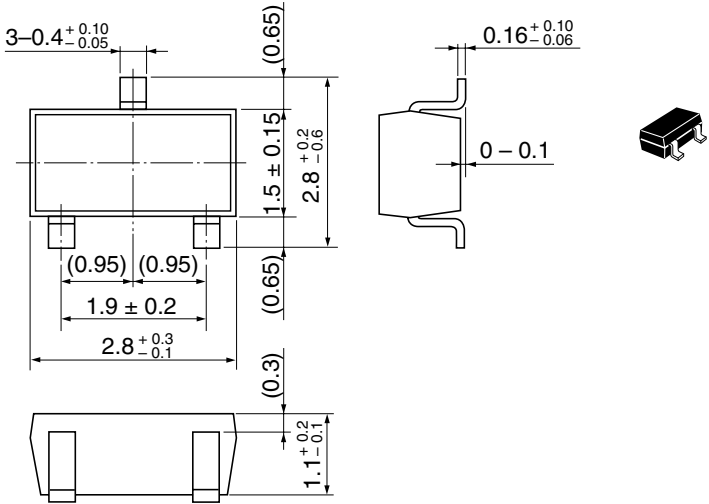


Fig.4 Transient Thermal Impedance

Package Dimensions

As of July, 2001
Unit: mm



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

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