

# HZM27WA

Silicon Epitaxial Planar Zener Diode for Surge Absorb

REJ03G1214-0400  
(Previous: ADE-208-352C)  
Rev.4.00  
Jun 16, 2005

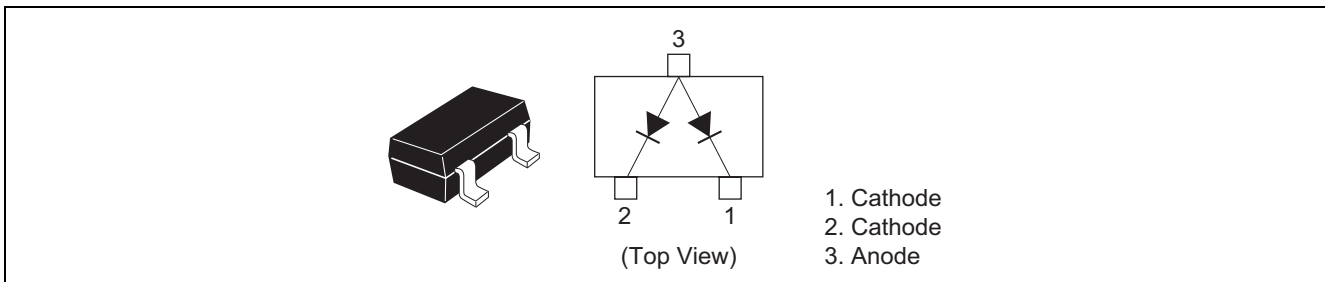
## Features

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

## Ordering Information

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
HZM27WA	27A	MPAK	PLSP0003ZC-A (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>	25.10	—	28.90	V	I <sub>Z</sub> = 2 mA, 40 ms pulse
Reverse current	I <sub>R</sub>	—	—	2	μA	V <sub>R</sub> = 21 V
Capacitance	C	—	(27) *2	—	pF	V <sub>R</sub> = 0 V, f = 1 MHz
Dynamic resistance	r <sub>d</sub>	—	—	70	Ω	I <sub>Z</sub> = 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<sub>R</sub> > 2 μA at V<sub>R</sub> = 21 V

Main Characteristic

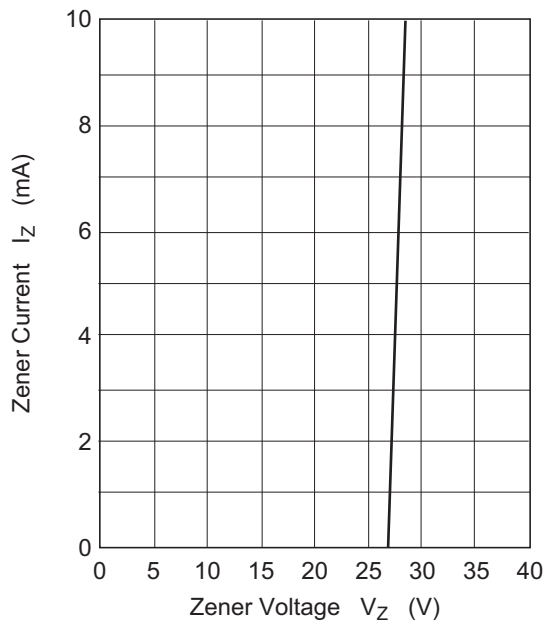


Fig.1 Zener Current vs. Zener Voltage

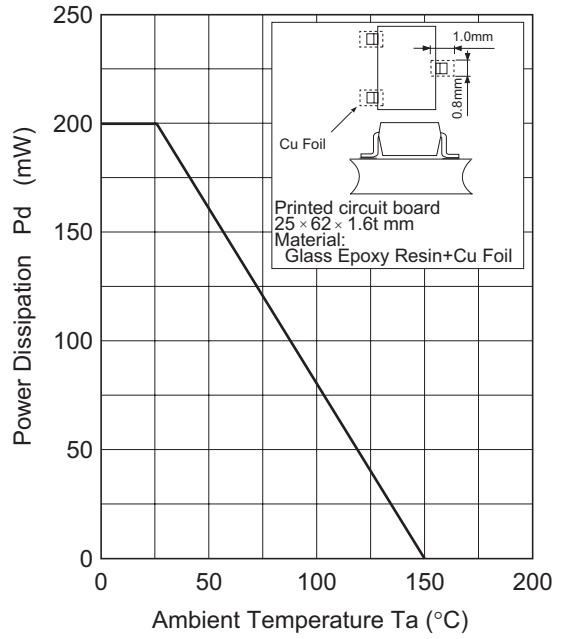


Fig.2 Power Dissipation vs. Ambient Temperature

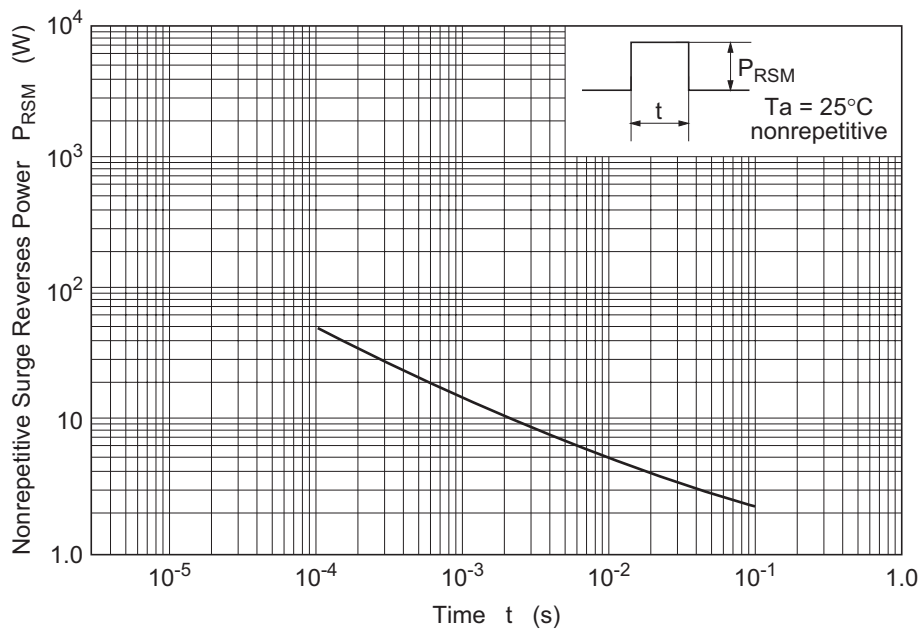


Fig.3 Surge Reverse Power Ratings

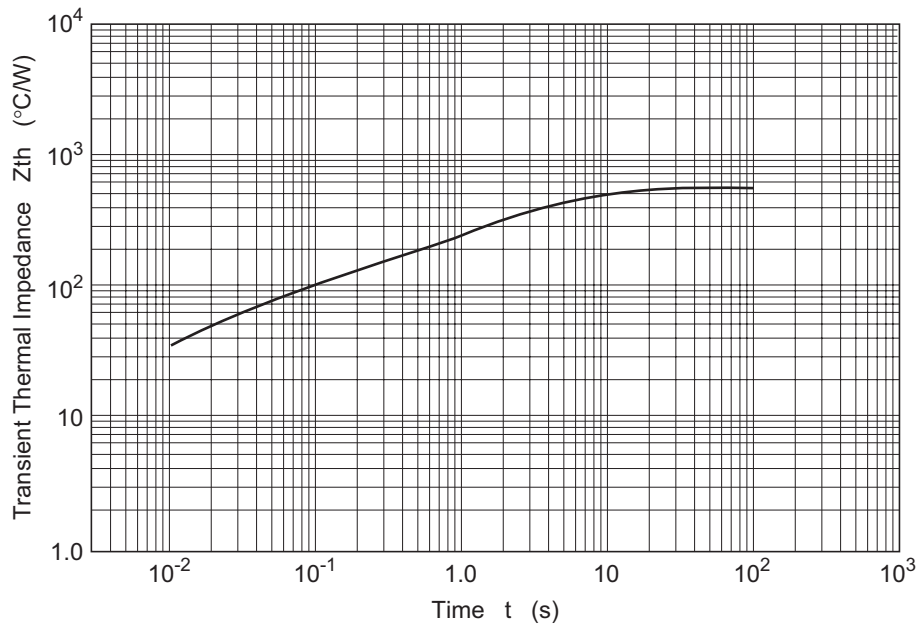
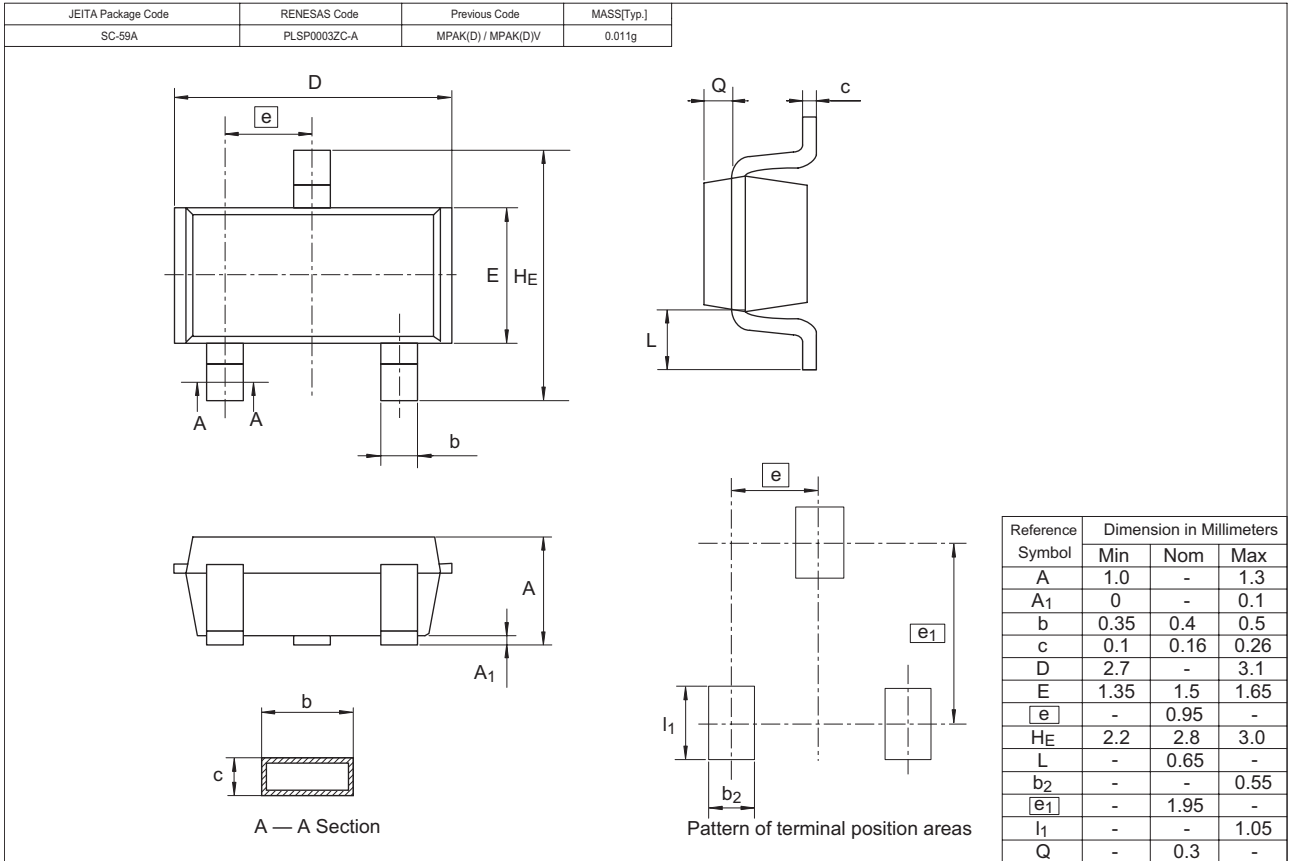


Fig.4 Transient Thermal Impedance

Package Dimensions



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