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Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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HZM3.3WA

Silicon Epitaxial Planar Zener Diode for Surge Absorb

REJ03G1205-0200
(Previous: ADE-208-1458A)
Rev.2.00
Jun 03, 2005

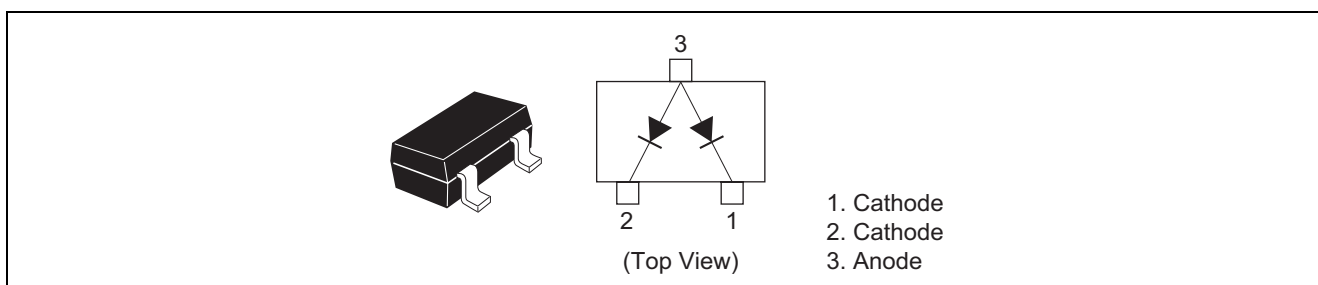
Features

- HZM3.3WA 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)
HZM3.3WA	33A	MPAK	PLSP0003ZC-A (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	3.10	—	3.50	V	I _Z = 5 mA, 40 ms pulse
Reverse current	I _R	—	—	20	μA	V _R = 1.0 V
Dynamic resistance	r _d	—	—	130	Ω	I _Z = 5 mA
ESD-Capability * ²	—	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 > 20 μA at V_R = 1.0 V.

Main Characteristic

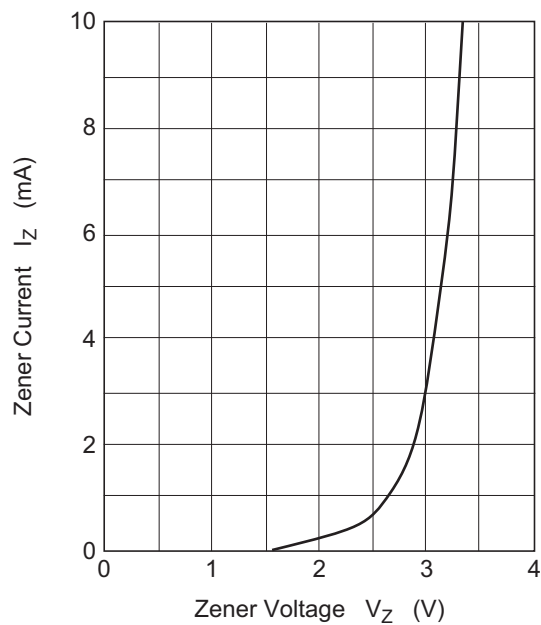


Fig.1 Zener current vs. Zener voltage

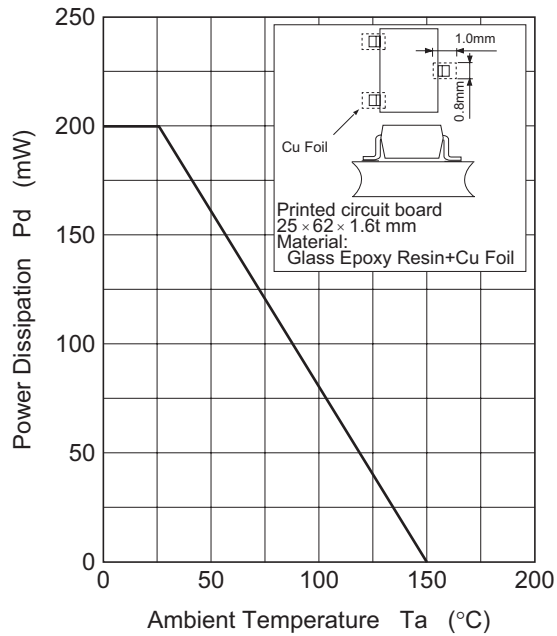


Fig.2 Power Dissipation vs. Ambient Temperature

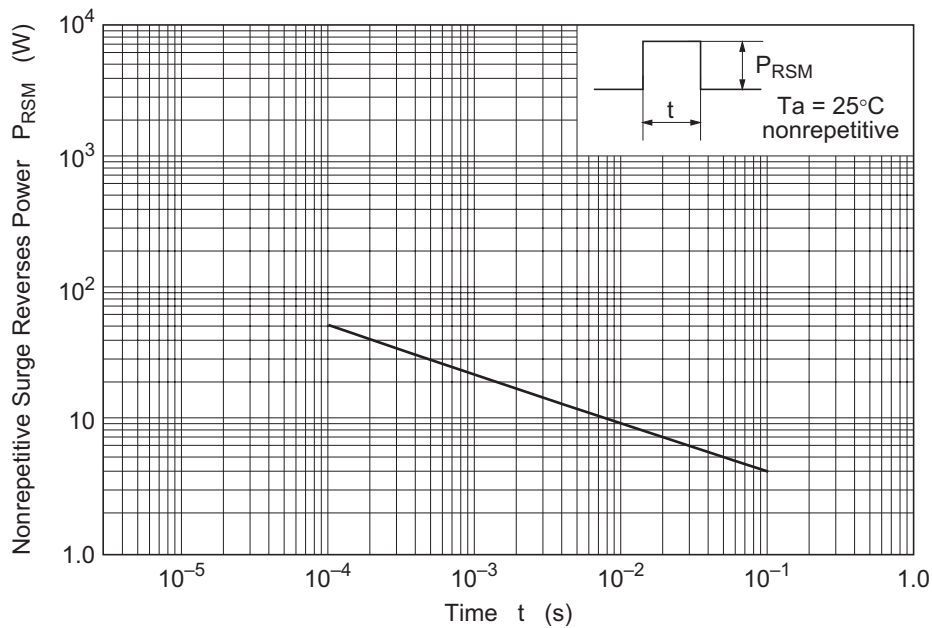


Fig.3 Surge Reverse Power Ratings

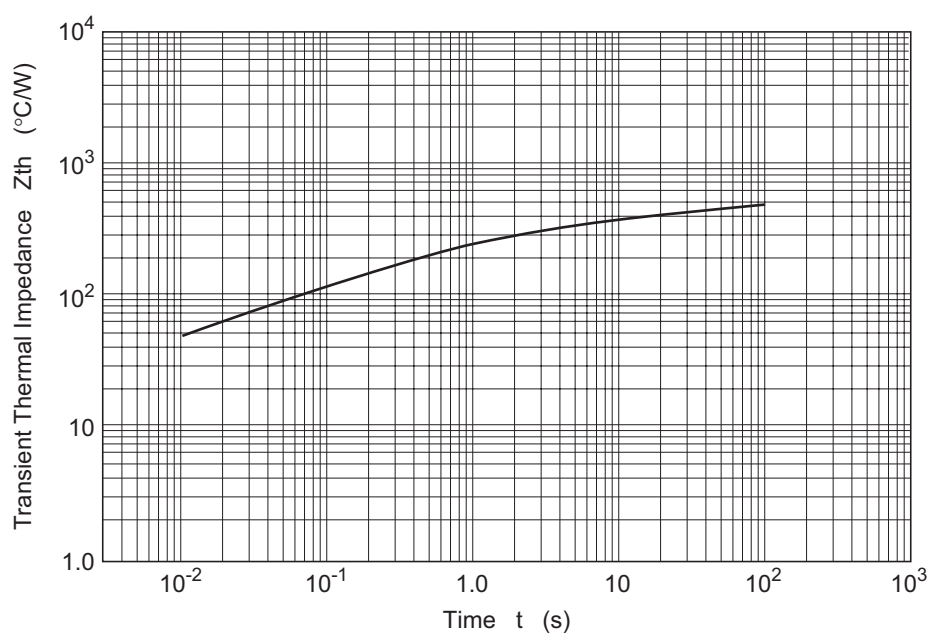
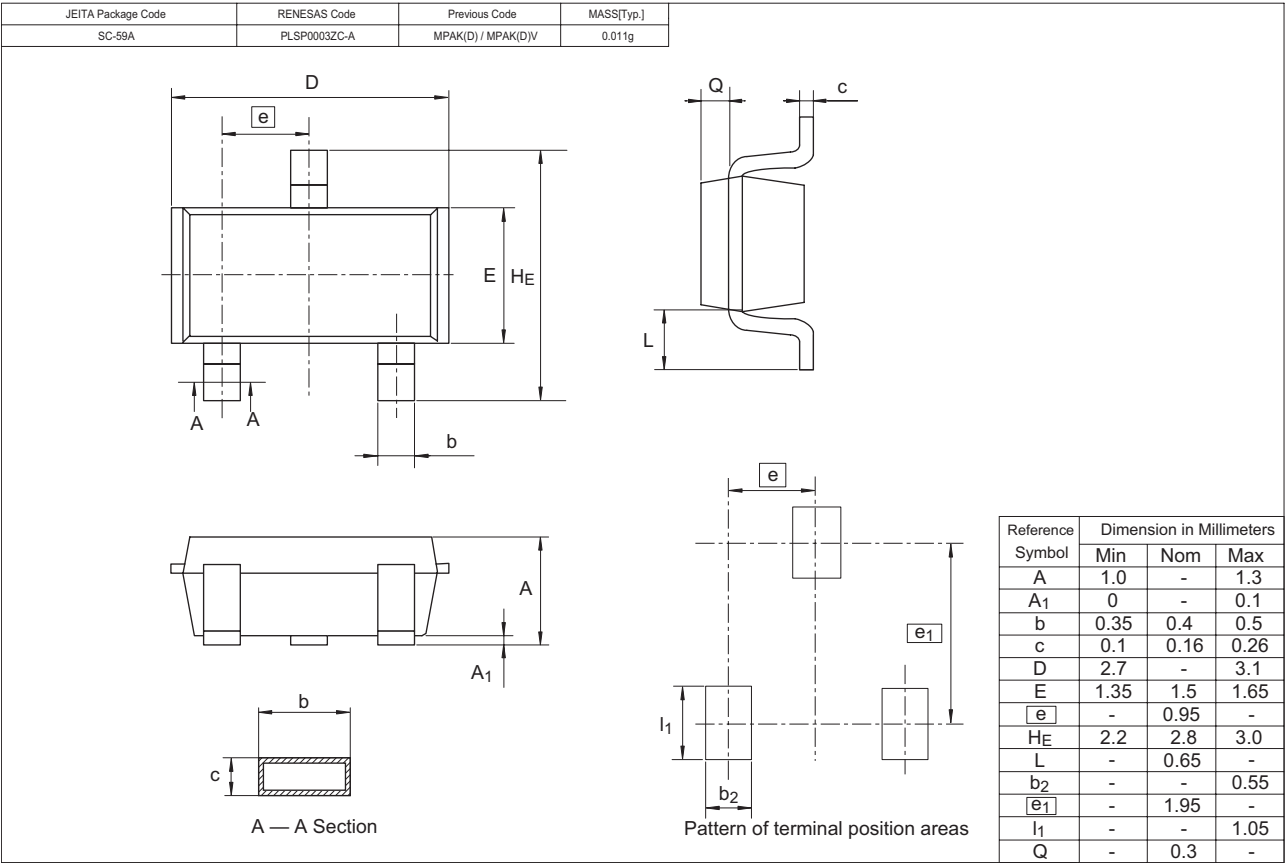


Fig.4 Transient Thermal Impedance

Package Dimensions



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