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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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HZU6.2Z

Silicon Epitaxial Planar Zener Diode for Surge Absorb

REJ03G1218-0200
(Previous: ADE-208-581A)
Rev.2.00
Jun 16, 2005

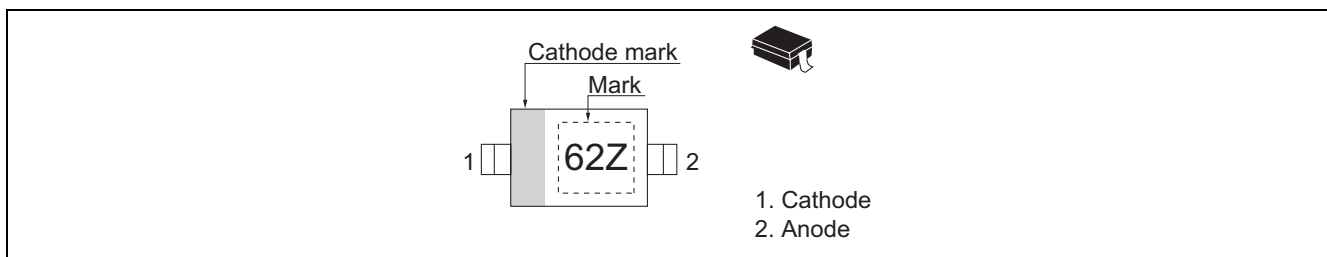
Features

- Low capacitance ($C = 8.5 \text{ pF max}$) and can protect signal line from ESD.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
HZU6.2Z	62Z	URP	PTSP0002ZA-A (URP)

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: See Fig.2.

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	Vz	5.90	—	6.50	V	Iz = 5 mA, 40 ms pulse
Reverse current	IR	—	—	3	μA	VR = 5.5 V
Capacitance	C	—	8.0	8.5	pF	VR = 0 V, f = 1 MHz
Dynamic resistance	rd	—	—	60	Ω	Iz = 5 mA

Main Characteristic

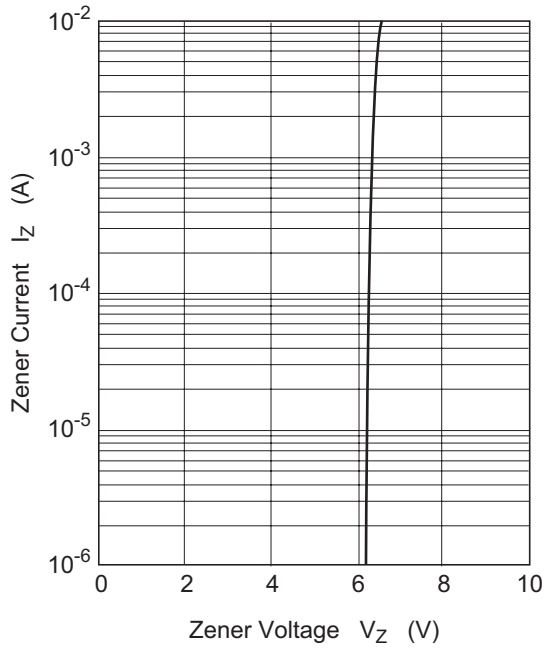


Fig.1 Zener current vs. Zener voltage

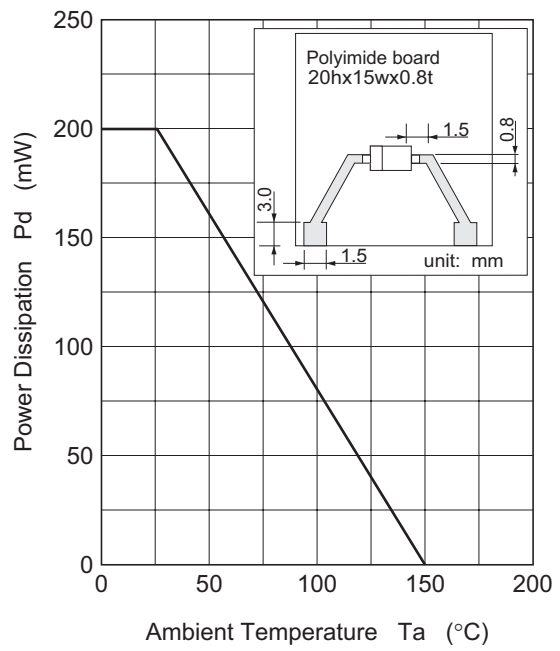


Fig.2 Power Dissipation vs. Ambient Temperature

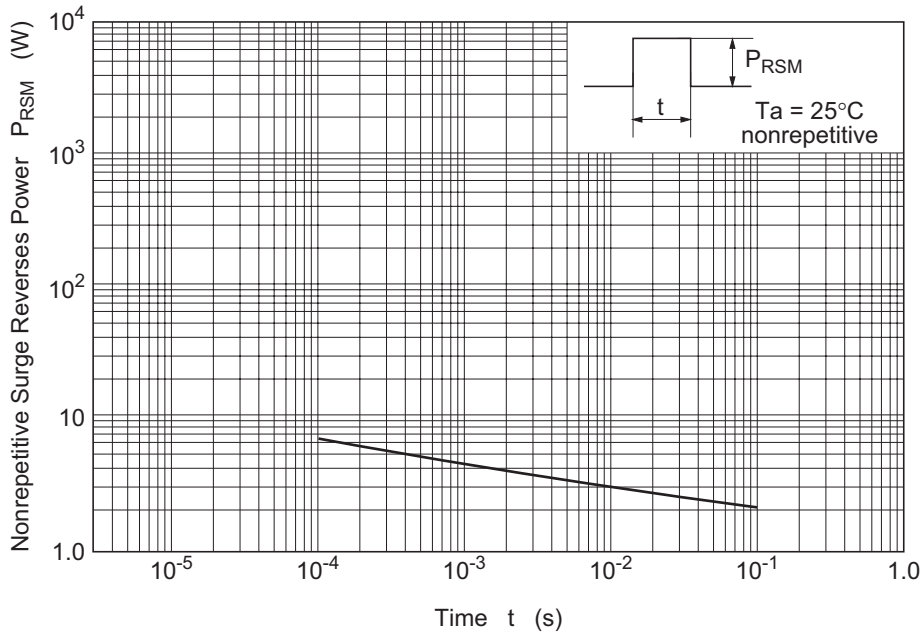


Fig.3 Surge Reverse Power Ratings

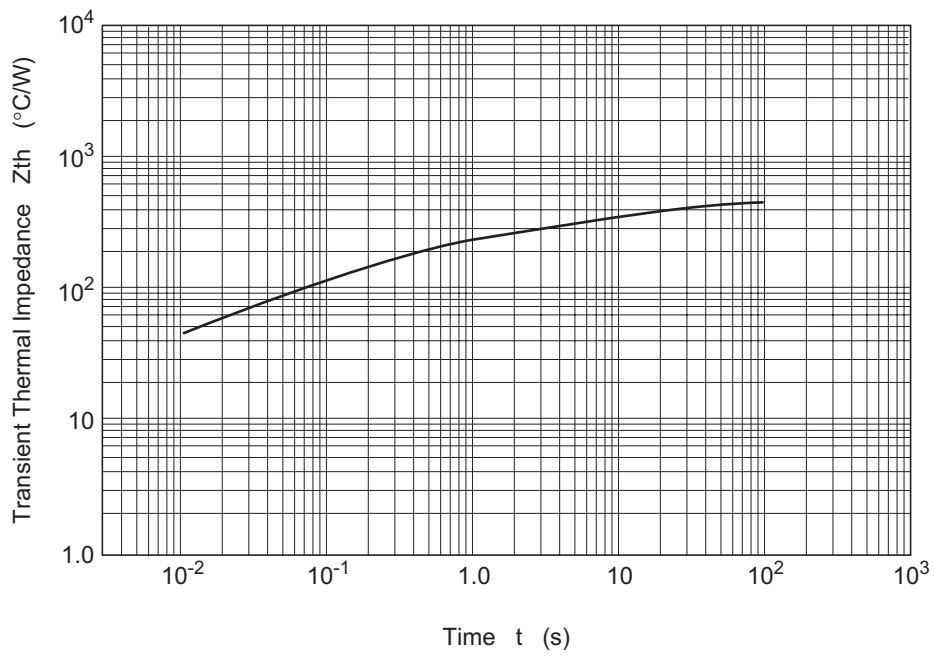
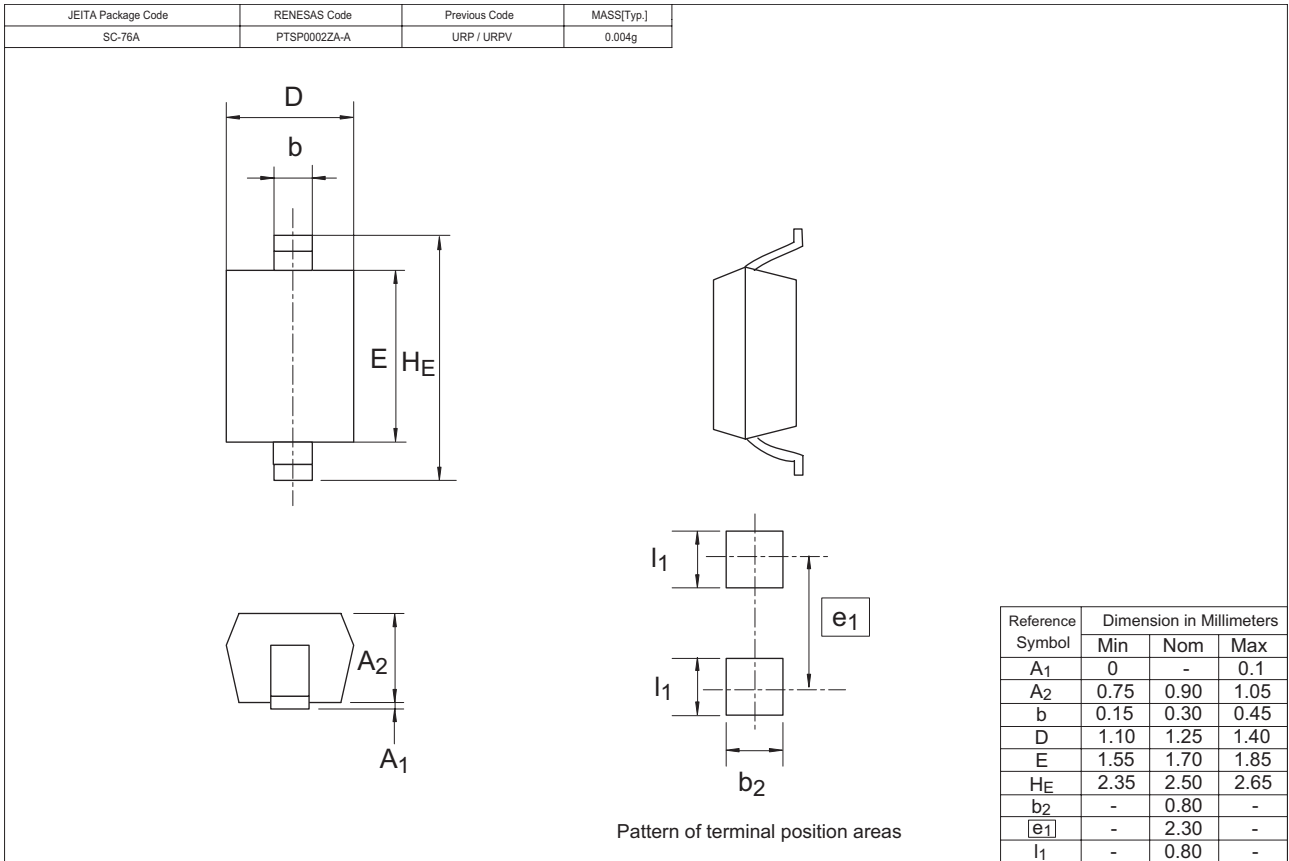


Fig.4 Transient Thermal Impedance

Package Dimensions



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