

# HZC6.2Z4

## Silicon Planar Zener Diode for Surge Absorb

REJ03G1720-0100  
 Rev.1.00  
 Jan 13, 2009

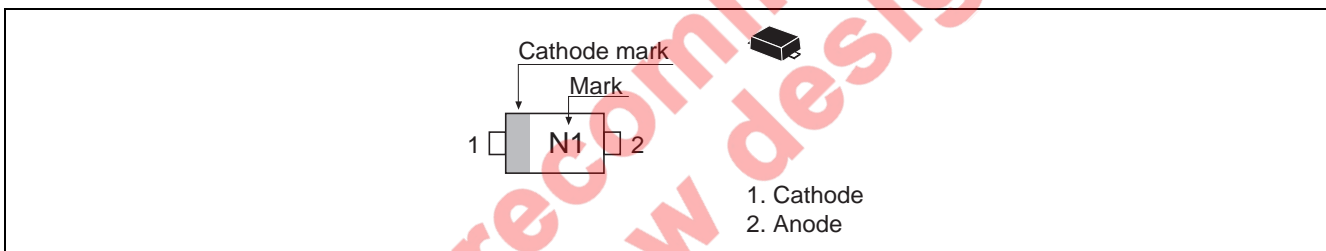
### Features

- Low capacitance ( $C = 4.0 \text{ pF max}$ ) and can protect ESD of signal line.
- Ultra small Flat lead Package (UFP) is suitable for compact and high-density surface mount design.

### Ordering Information

Part No.	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
HZC6.2Z4TRF	N1	UFP	PWSF0002ZA-A	TRF (4,000 pcs / reel)

### Pin Arrangement



Not recommended for new design

## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd *	150	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	V <sub>Z</sub>	5.90	—	6.50	V	I <sub>Z</sub> = 5 mA, 40 ms pulse
Reverse current	I <sub>R</sub>	—	—	3	μA	V <sub>R</sub> = 5.5 V
Capacitance	C	—	—	4.0	pF	V <sub>R</sub> = 0 V, f = 1 MHz
Dynamic resistance	r <sub>d</sub>	—	—	60	Ω	I <sub>Z</sub> = 5 mA
ESD-Capability *1*2	—	8	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes: 1. Failure criterion ; I<sub>R</sub> > 3 μA at V<sub>R</sub> = 5.5 V.

2. Between cathode and anode.

3. In the UFP package, some lead is exposed because the tip of the lead is used as the cutting plane. Therefore, the solderability of the lead tip has been ignored. Please test and confirm before use.

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Main Characteristics

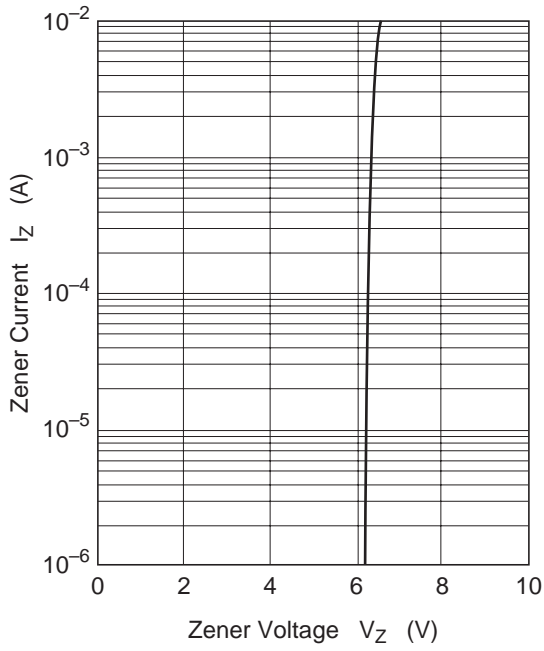


Fig.1 Zener current vs. Zener voltage

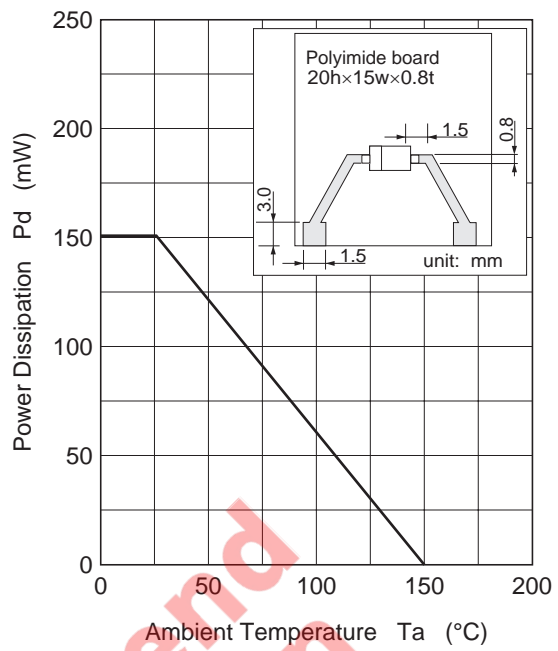


Fig.2 Power Dissipation vs. Ambient Temperature

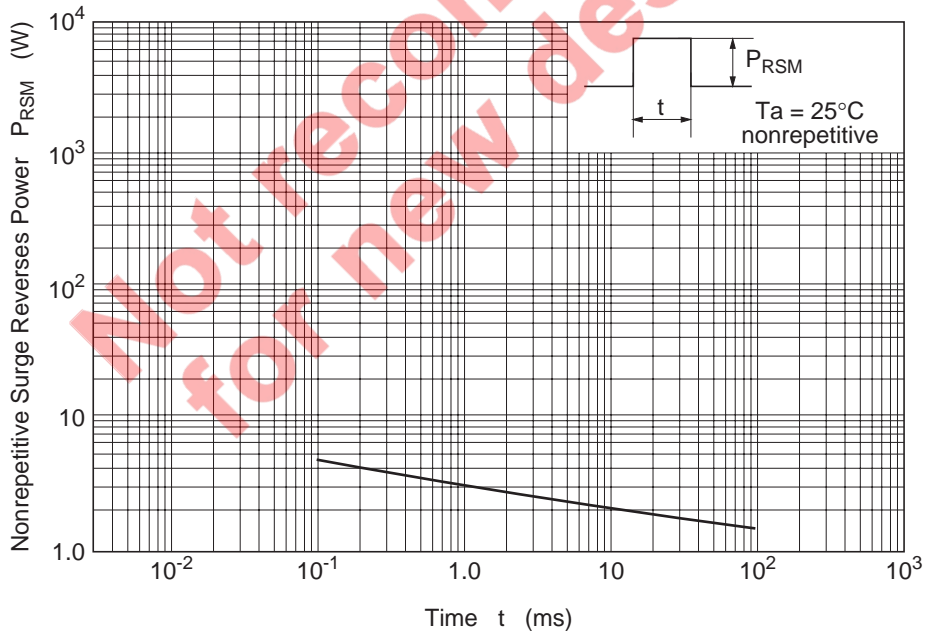
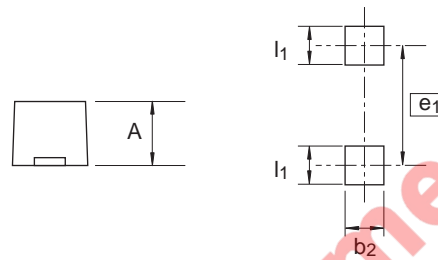
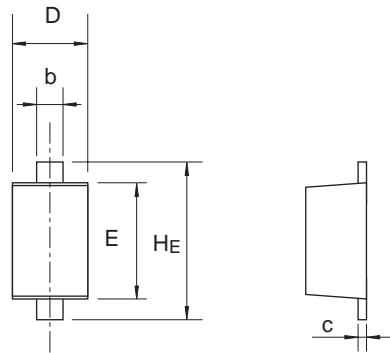


Fig.3 Surge Reverse Power Ratings

Package Dimensions

Package Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
UFP	SC-79	PWSF0002ZA-A	UFP / UFPV	0.0016g



Pattern of terminal position areas

Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
A	0.50	0.60	0.70
b	0.25	0.30	0.35
c	0.08	0.13	0.18
D	0.70	0.80	0.90
E	1.10	1.20	1.30
HE	1.50	1.60	1.70
b2	—	0.80	—
e1	—	1.70	—
l1	—	0.60	—

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