

To our customers,

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## Old Company Name in Catalogs and Other Documents

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April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

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# HZN6.8Z4MFA

Silicon Planar Zener Diode for Surge Absorb

REJ03G0205-0100Z

Rev.1.00

Mar.29.2004

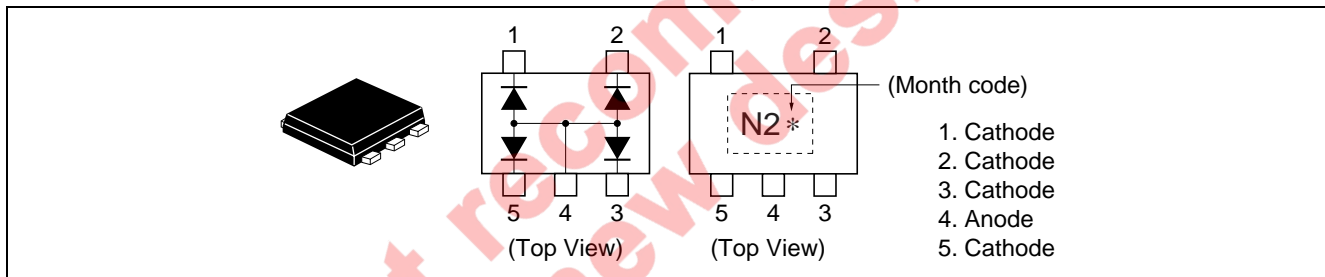
## Features

- HZN6.8Z4MFA has four devices in a monolithic, and can absorb surge.
- Low capacitance (C = 4.0 pF Typ / 4.5 pF max) and can protect ESD of signal line.
- VSON-5T Package is suitable for high density surface mounting.

## Ordering Information

Type No.	Laser Mark	Package Code
HZN6.8Z4MFA	N2	VSON-5T

## Pin Arrangement



**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: Four 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>	6.47	—	7.00	V	I <sub>Z</sub> = 5 mA, 40 ms pulse
Reverse current	I <sub>R</sub>	—	—	2	μA	V <sub>R</sub> = 3.5 V
Capacitance	C	—	4.0	4.5	pF	V <sub>R</sub> = 0 V, f = 1 MHz
Dynamic resistance	r <sub>d</sub>	—	—	30	Ω	I <sub>Z</sub> = 5 mA
ESD-Capability *2	—	8	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

- Notes: 1. Per one device.  
 2. Failure criterion ; I<sub>R</sub> > 2 μA at V<sub>R</sub> = 3.5 V.  
 3. Between cathode and anode.

**Month Code**

Month of Manufacture	Assemble		Month of Manufacture	Assemble	
	JAPAN	MALAYSIA		JAPAN	MALAYSIA
January	A	1	July	G	7
February	B	2	August	H	8
March	C	3	September	J	9
April	D	4	October	K	W
May	E	5	November	L	X
June	F	6	December	M	Y

Main Characteristic

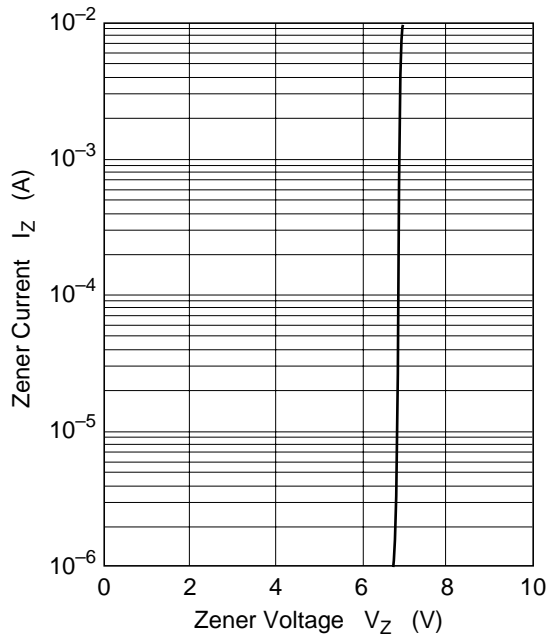


Fig.1 Zener current vs. Zener voltage

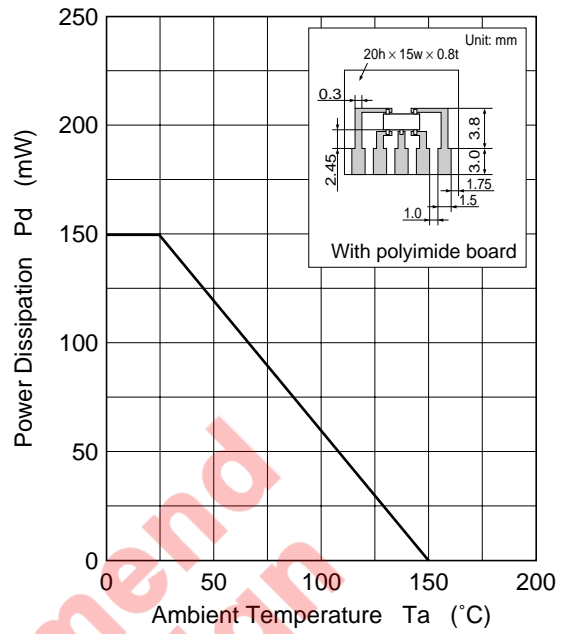


Fig.2 Power Dissipation vs. Ambient Temperature

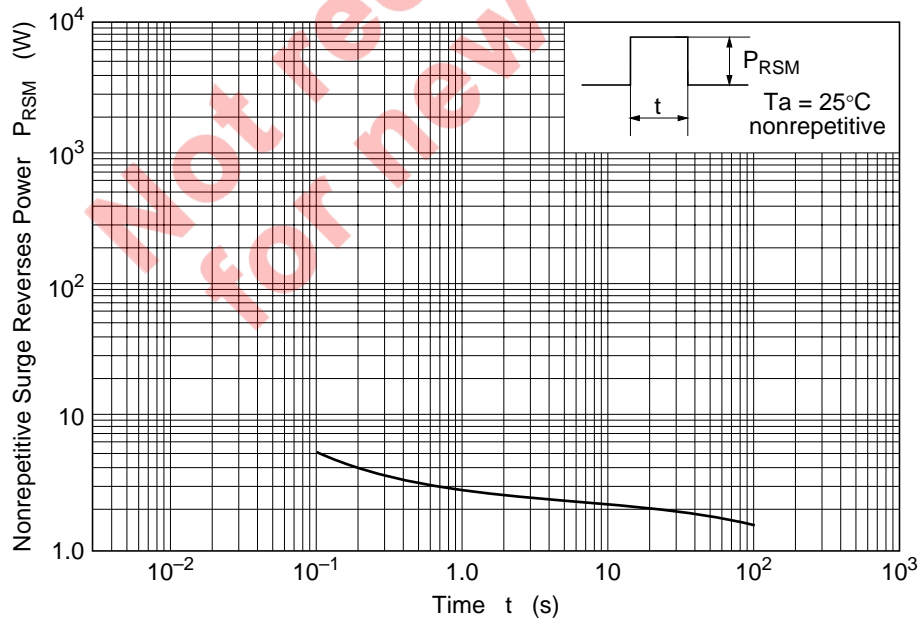
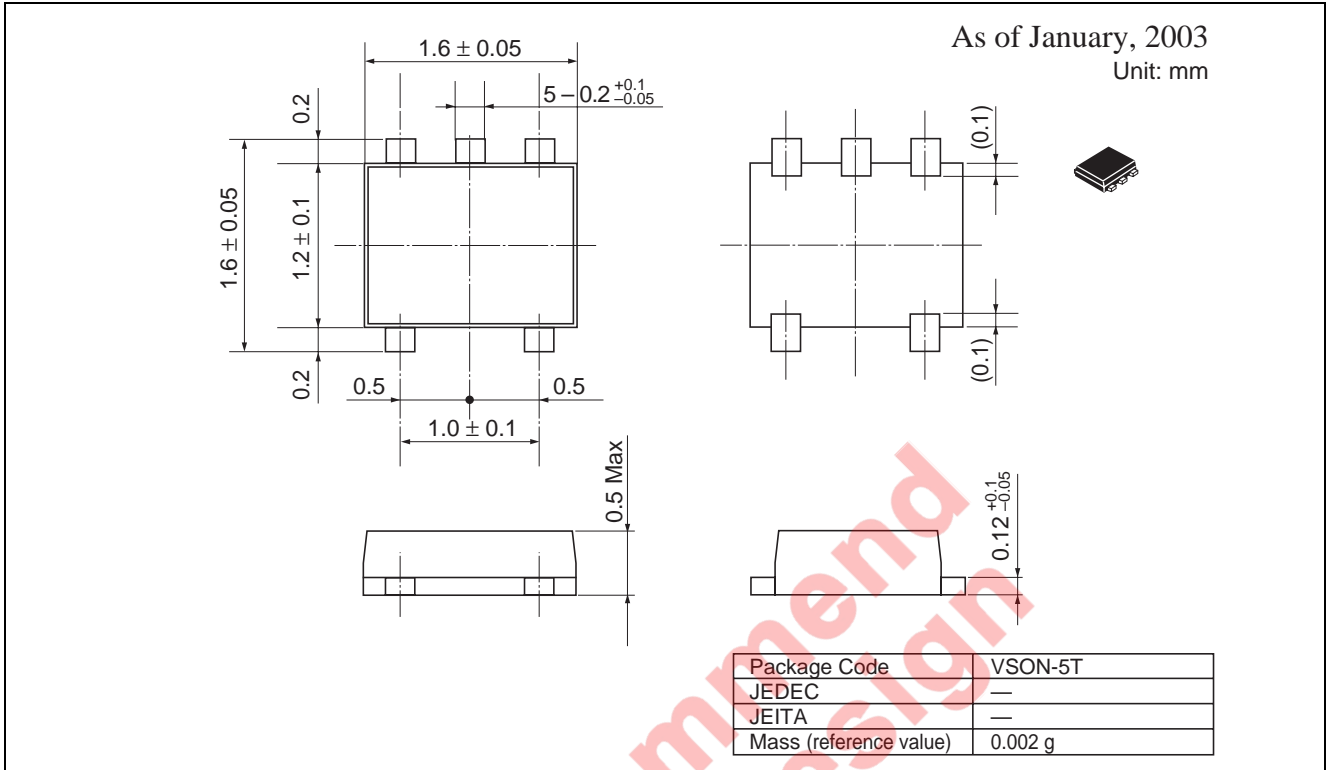


Fig.3 Surge Reverse Power Ratings

Package Dimensions



Not recommended  
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