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

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# HZN6.8ZMFA

## Silicon Planar Zener Diode for Surge Absorb

REJ03G0032-0100Z

(Previous: ADE-208-1456)

Rev.1.00

May.08. 2003

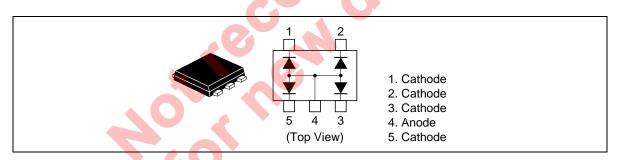
#### **Features**

- HZN6.8ZMFA has four devices in a monolithic, and can absorb surge.
- VSON-5T Package is suitable for high density surface mounting.

## **Ordering Information**

Type No.	Laser Mark	Package Code
HZN6.8ZMFA	68*(* : Let to Month Code)	VSON-5T

### **Pin Arrangement**



### **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Value	Unit
Power dissipation	Pd *1	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: 1. Four device total, See Fig.2.

## **Electrical Characteristics** \*1

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	V <sub>z</sub>	6.47	_	7.00	V	$I_z = 5 \text{ mA}$ , 40 ms pulse
Reverse current	I <sub>R</sub>	_	_	0.5	μА	V <sub>R</sub> = 3.5 V
Capacitance	С	_	_	25	pF	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$
Dynamic resistance	r <sub>d</sub>	_	_	30	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2 *3	_	25	7	<del>,</del>	kV	$C = 150 \text{ pF}, R = 330 \Omega$ , Both forward and reverse direction 10 pulse

Notes: 1. Per one device.

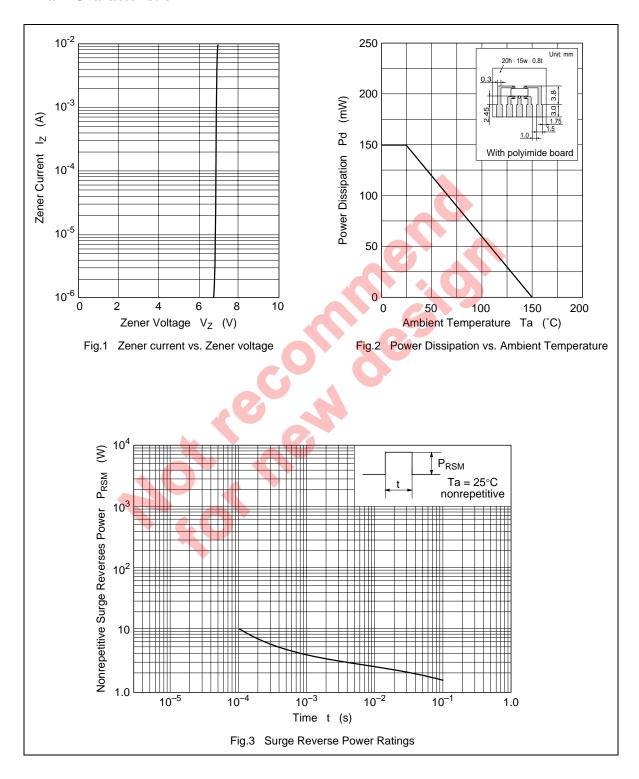
2. Failure criterion ;  $I_R > 0.5 \mu A$  at  $V_R = 3.5 V$ .

3. Between cathode and anode.

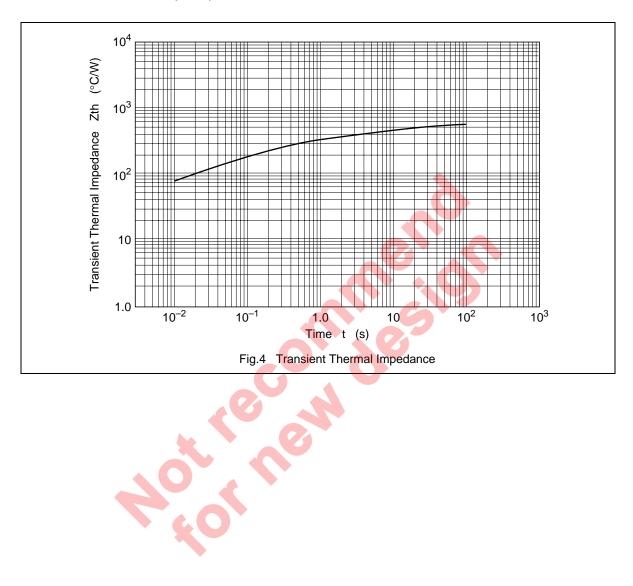
## **Month Code**

Month of Manufacture	Month Code	Month of Manufacture	Month Code
January	A	July	G
February	В	August	Н
March	С	September	J
April	D	October	K
May	E	November	L
June	F	December	M

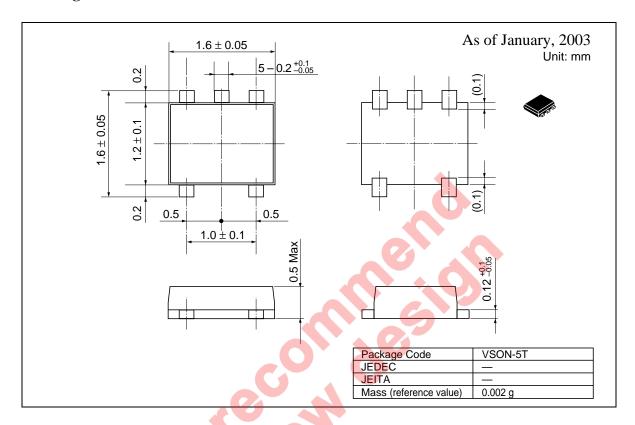
#### **Main Characteristic**



#### Main Characteristic (cont.)



## **Package Dimensions**





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