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Renesas Technology Corp. Customer Support Dept. April 1, 2003



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Silicon Epitaxial Planar Zener Diode for Surge Absorb



ADE-208-468B (Z)

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Rev.2 Nov. 2002

Features

- HZM4.3FA has four devices, and can absorb surge.
- MPAK-5 Package is suitable for high density surface mounting and high speed assembly.

Ordering Informat	ion			
Type No.	Laser Mark		Package Code	
HZM4.3FA	43A		MPAK-5	
Pin Arrangement		250		
		1 2 4 4 5 4 3 (Top View)	 Cathode Cathode Cathode Anode Cathode 	

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit		
Power dissipation	Pd *	200	mW	mW	
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

Note: Four device total, See Fig.2.

Electrical Characteristics^{*1}

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	V _z	4.01	_	4.48	V	l _z = 5 mA, 40 ms pulse
Reverse current	I _R			10	μA	V _R = 1 V
Capacitance	С	_	_	150	pF	$V_{\rm R} = 0$ V, f = 1 MHz
Dynamic resistance	r _d	—	_	130	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2	_	30		_	kV	C = 150 pF, R = 330 Ω , Both forward and reverse direction 10 pulse

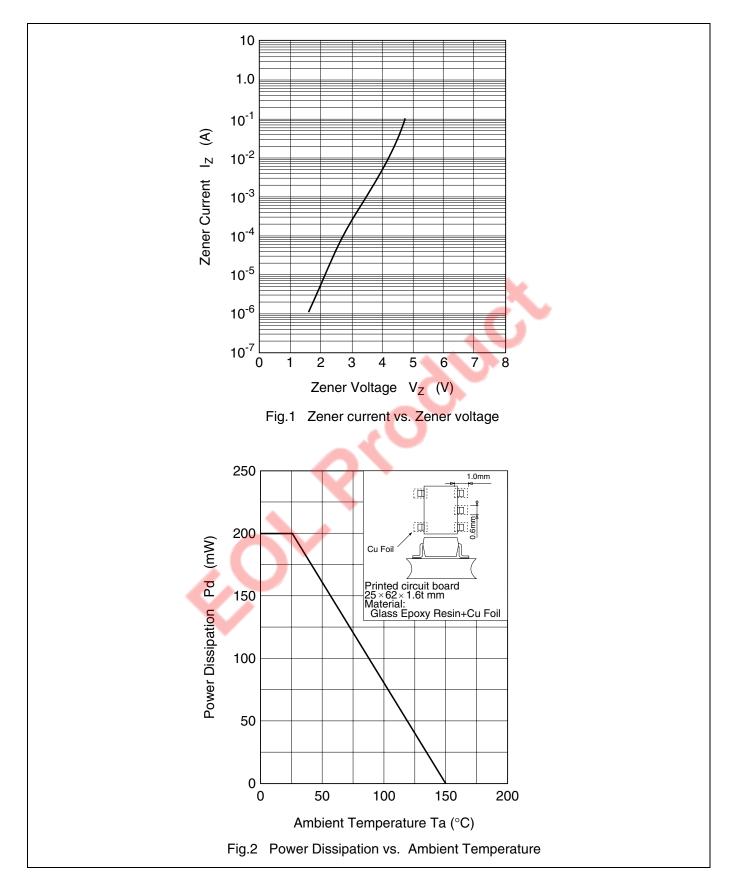
Notes: 1. Per one device.

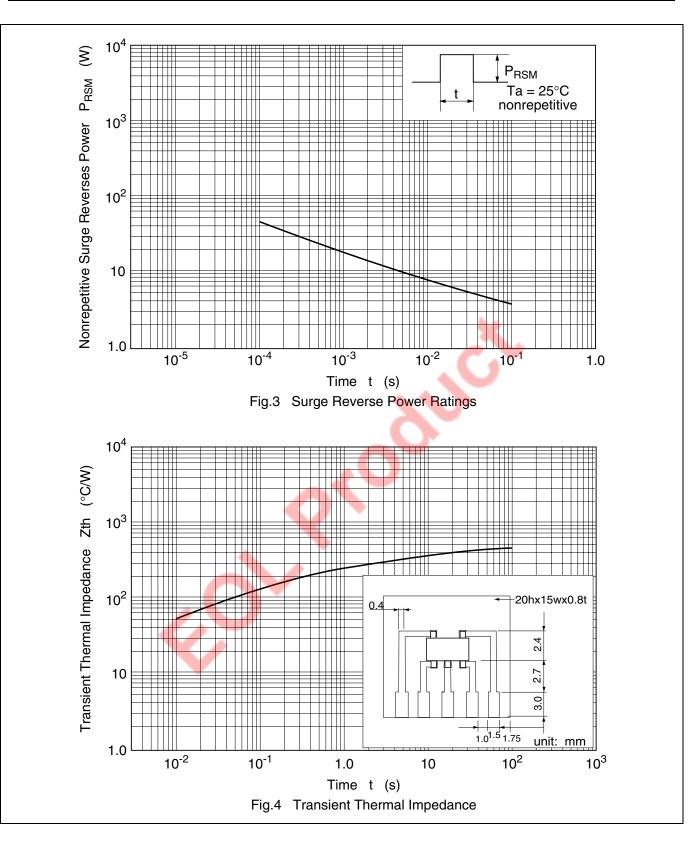
2. Failure criterion ; $I_{_{\rm R}} > 10 \,\mu\text{A}$ at $V_{_{\rm R}} = 1 \,\text{V}$.

60



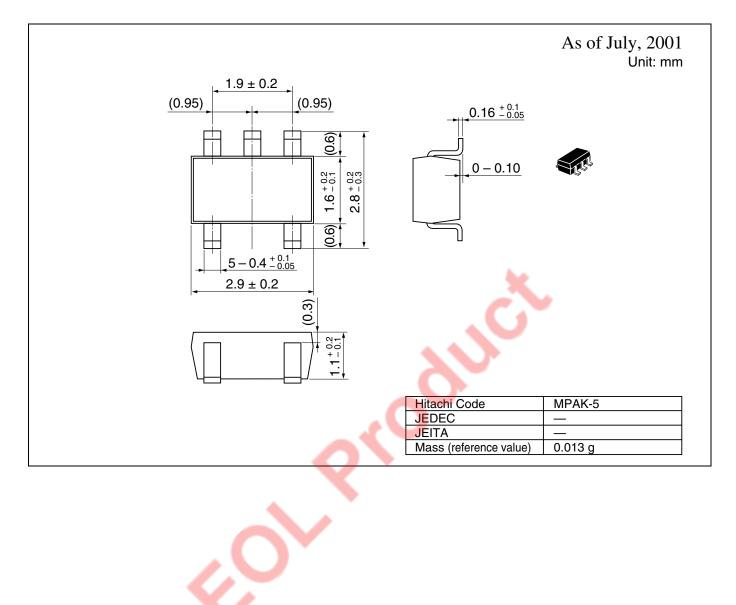
Main Characteristic





RENESAS

Package Dimensions





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