## HZM4.3FA

## Silicon Epitaxial Planar Zener Diode for Surge Absorb

# **HITACHI**

ADE-208-468A (Z)

Rev.1 Nov. 2001

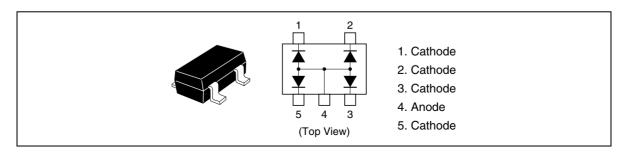
#### **Features**

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

### **Ordering Information**

Type No.	Laser Mark	Package Code
HZM4.3FA	43A	MPAK-5

## Pin Arrangement





### HZM4.3FA

## **Absolute Maximum Ratings**

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

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

Note: Four device total, See Fig.2.

## **Electrical Characteristics\***<sup>1</sup>

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	V <sub>z</sub>	4.01		4.48	V	$I_z = 5 \text{ mA}, 40 \text{ ms pulse}$
Reverse current	I <sub>R</sub>	_	_	10	μΑ	V <sub>R</sub> = 1 V
Capacitance	С	_	_	150	pF	V <sub>R</sub> = 0 V, f = 1 MHz
Dynamic resistance	r <sub>d</sub>	_	_	130	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2	_	30	_	_	kV	$C$ = 150 pF, R = 330 $\Omega$ , Both forward and reverse direction 10 pulse

Notes: 1. Per one device.

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

#### **Main Characteristic**

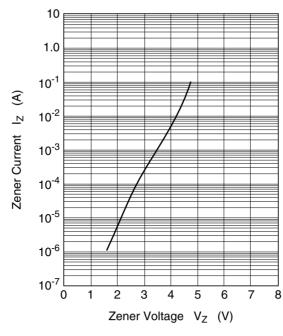


Fig.1 Zener current vs. Zener voltage

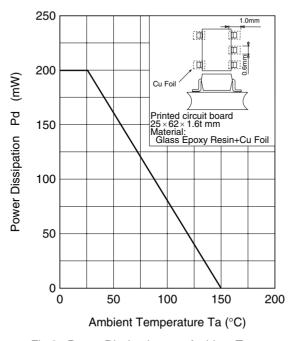
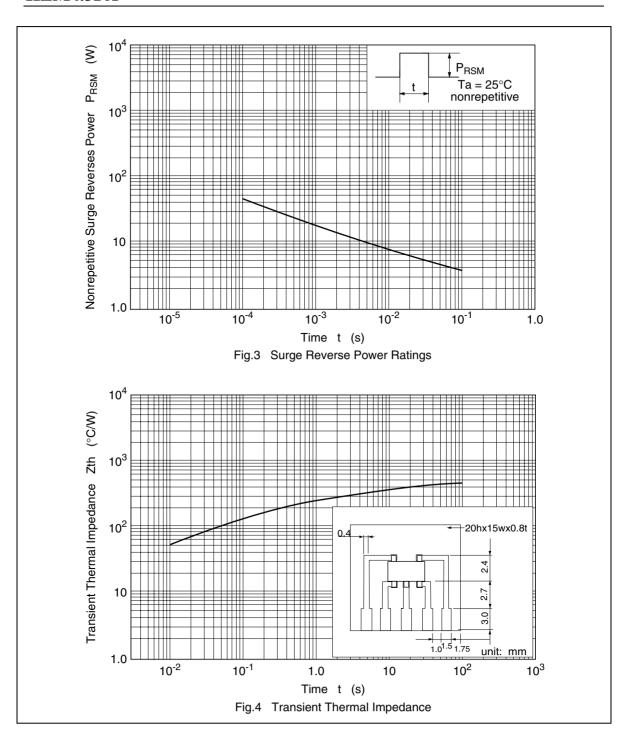
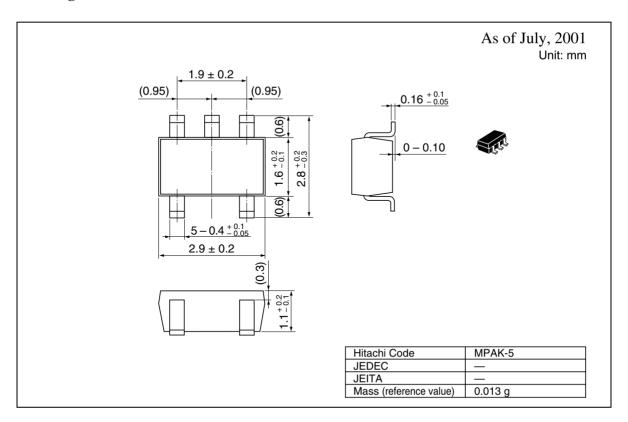


Fig.2 Power Dissipation vs. Ambient Temperature



## **Package Dimensions**



#### HZM4.3FA

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