## Silicon Epitaxial Planar Zener Diode for Surge Absorb

# HITACHI

ADE-208-442A(Z) Rev 1 September 1996

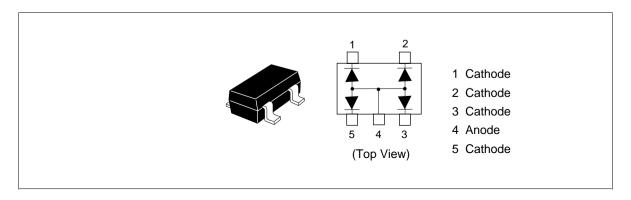
## Features

- HZM6.8FA 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**

Туре No.	Laser Mark	Package Code
HZM6.8FA	68A	MPAK-5

#### Outline





## Absolute Maximum Ratings (Ta = $25^{\circ}$ C)

Item	Symbol	Value	Unit
Power dissipation	Pd <sup>*1</sup>	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	٥C

Note 1. Four device total, With P.C board.

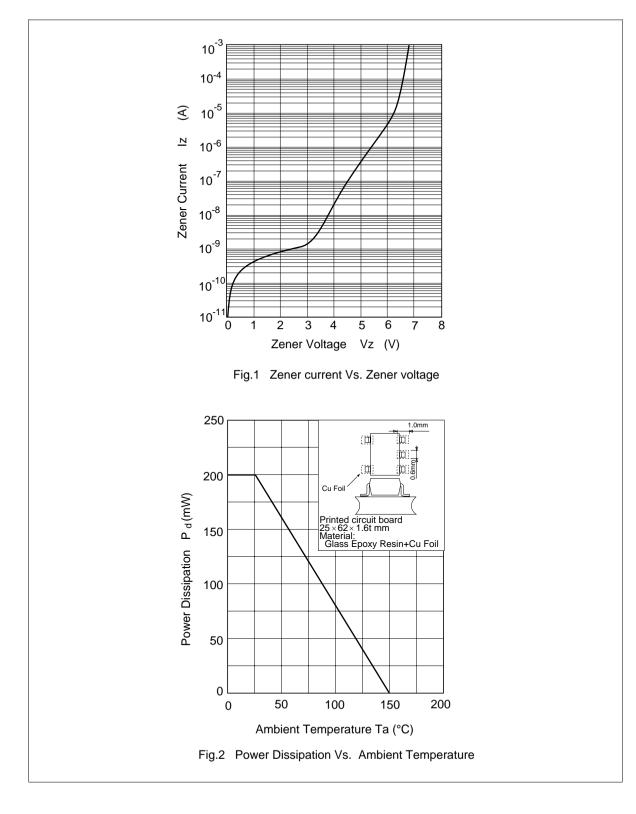
## Electrical Characteristics (Ta = $25^{\circ}$ C) <sup>\*1</sup>

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	Vz	6.47	_	7.0	V	$I_z = 5 \text{ mA}$ , 40ms pulse
Reverse current	I <sub>R</sub>	—	—	2	μΑ	V <sub>R</sub> = 3.5V
Capacitance	С	_	_	130	pF	$V_R = 0V$ , f = 1 MHz
Dynamic resistance	r <sub>d</sub>		_	30	Ω	$I_z = 5 \text{ mA}$
ESD-Capability	—	30	_	_	kV	C =150pF, R = 330 $\Omega$ , Both forward and reverse direction 10 pulse <sup>*2</sup>

Notes 1. Per one device.

2. Failure criterion ; IR > 2  $\mu$ A at VR = 3.5V.

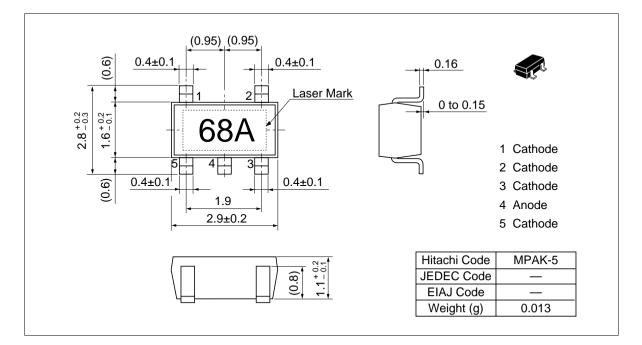
## Main Characteristic



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## **Package Dimensions**

Unit : mm



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