## Silicon Planar Zener Diode for Surge Absorb

# HITACHI

ADE-208-822 (Z) Rev 0 Oct. 1999

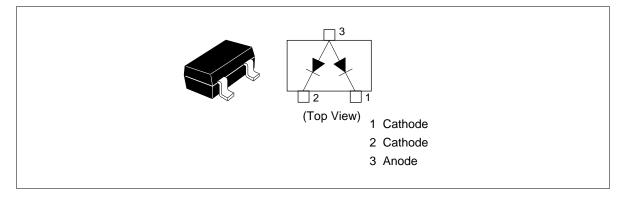
#### Features

- HZM6.8ZMWA has two devices in a monolithic, and can absorb surge.
- Low capacitance (C=25pF max) and can protect ESD of signal line.
- MPAK Package is suitable for high density surface mounting and high speed assembly.

#### **Ordering Information**

Туре No.	Laser Mark	Package Code
HZM6.8ZMWA	68N	МРАК

#### 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	°C	

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

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

Item	Symbol	Min	Тур	Мах	Unit	Test Condition
Zener voltage	Vz	6.47	_	7.00	V	$I_z = 5 \text{ mA}, 40 \text{ms} \text{ pulse}$
Reverse current	I <sub>R</sub>	—	—	2	μΑ	$V_R = 3.5V$
Capacitance	С		_	25	pF	$V_{R} = 0V$ , f = 1 MHz
Dynamic resistance	r <sub>d</sub>	_	_	30	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2Å@*3	—	20	_	—	kV	C =150pF, R = $330\Omega$ , Both forward and reverse direction 10 pulse

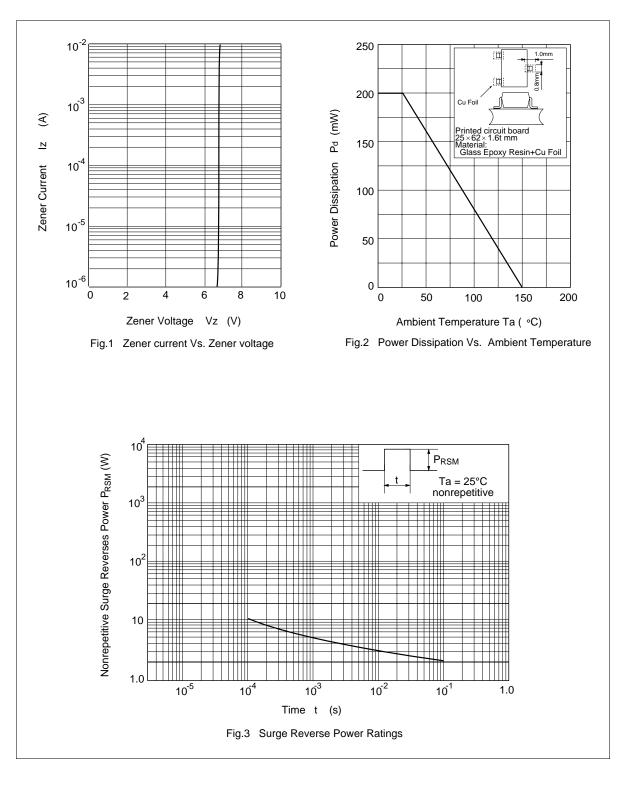
Notes 1. Per one device.

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

3. Between cathode and anode.

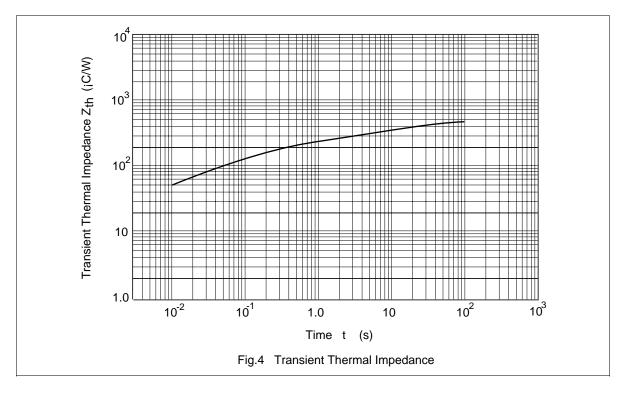
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#### **Main Characteristic**



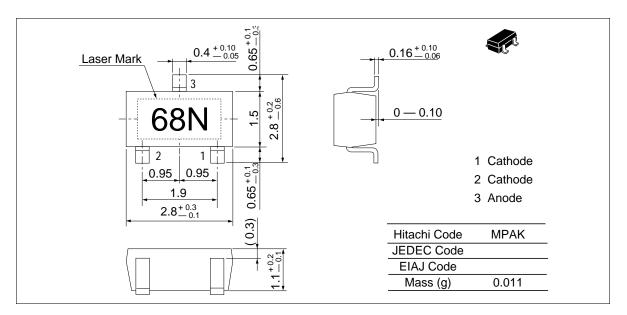
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## **Main Characteristic**



## **Package Dimensions**

Unit : mm



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