## Silicon Epitaxial Planar Zener Diode for Surge Absorb

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ADE-208-593(Z) Rev 0 Nov. 1997

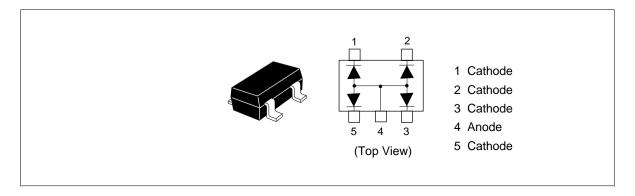
### Features

- HZM6.2ZFA has four devices, and can absorb external + and -surge.
- Low capacitance (C=8.5pF max) and can protect ESD of signal line.
- MPAK-5 Package is suitable for high density surface mounting and high speed assembly.

#### **Ordering Information**

Туре No.	Laser Mark	Package Code
HZM6.2ZFA	62Z	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, See Fig.2.

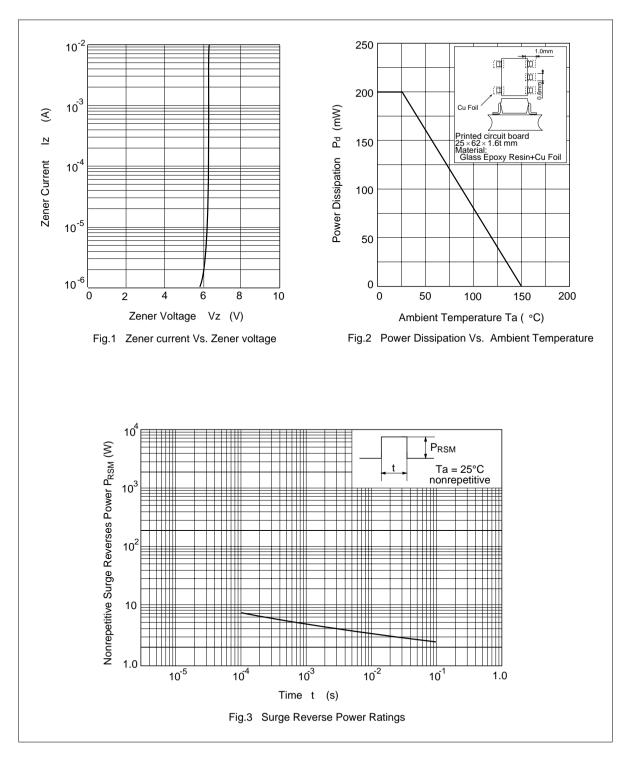
## Electrical Characteristics (Ta = $25^{\circ}$ C) <sup>\*1</sup>

ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Zener voltage	Vz	5.90	—	6.50	V	$I_z = 5 \text{ mA}, 40 \text{ms} \text{ pulse}$
Reverse current	I <sub>R</sub>	—	—	3	μΑ	V <sub>R</sub> = 5.5V
Capacitance	С		8.0	8.5	pF	$V_R = 0V$ , f = 1 MHz
Dynamic resistance	r <sub>d</sub>	_	_	60	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2	—	13	_	_	kV	C =150pF, R = 330 $\Omega$ , Both forward and reverse direction 10 pulse

Notes 1. Per one device.

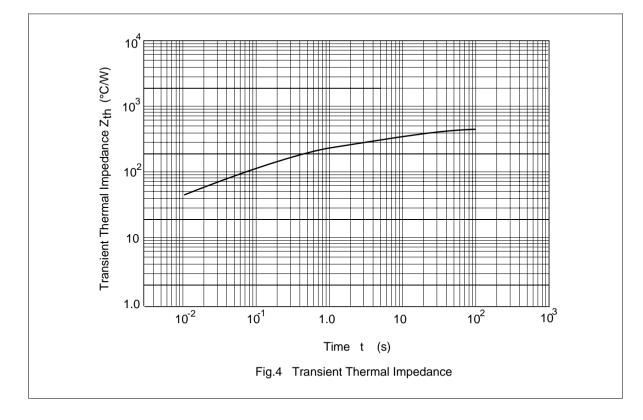
2. Failure criterion ; IR > 3  $\mu$ A at VR = 5.5V.

## Main Characteristic



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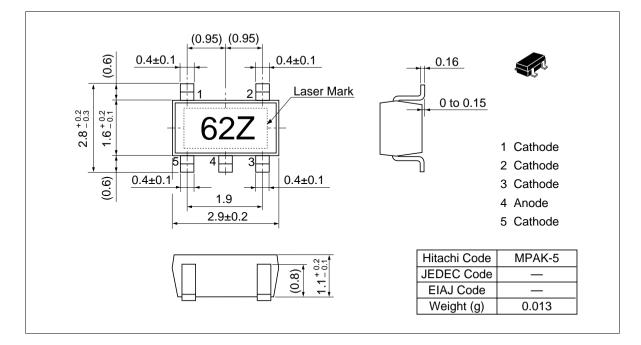
## Main Characteristic



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## **Package Dimensions**

Unit : mm



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