
HZM6.2ZWA

Silicon Epitaxial Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-499(Z)

Rev 0

Feb. 1997

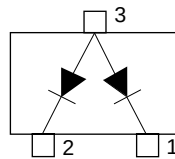
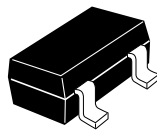
Features

- HZM6.2ZWA has two devices, and can absorb external + and -surge.
- Low capacitance ($C=8.5\text{pF}$ max) and can protect ESD of signal line.
- MPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HZM6.2ZWA	62Z	MPAK

Outline



(Top View)

- 1 Cathode
- 2 Cathode
- 3 Anode

HZM6.2ZWA

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd ¹	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

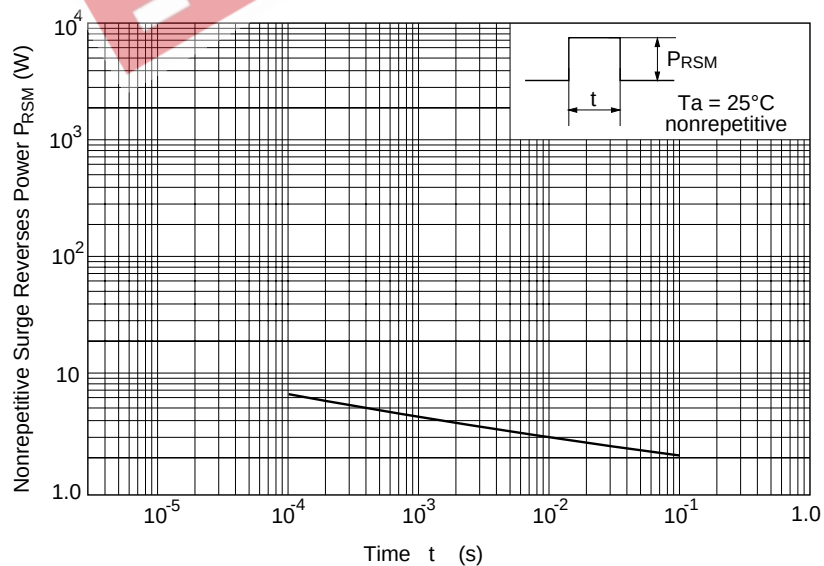
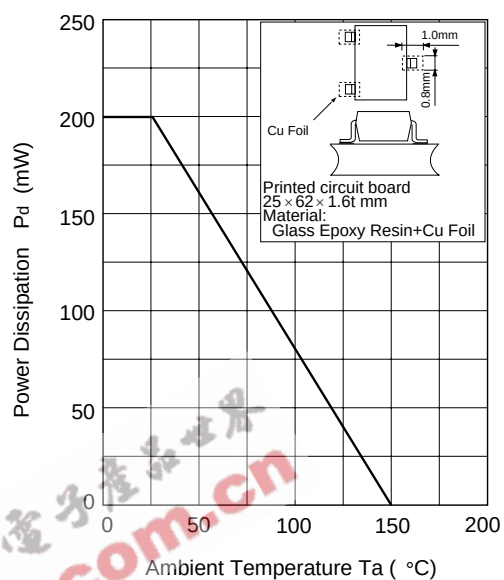
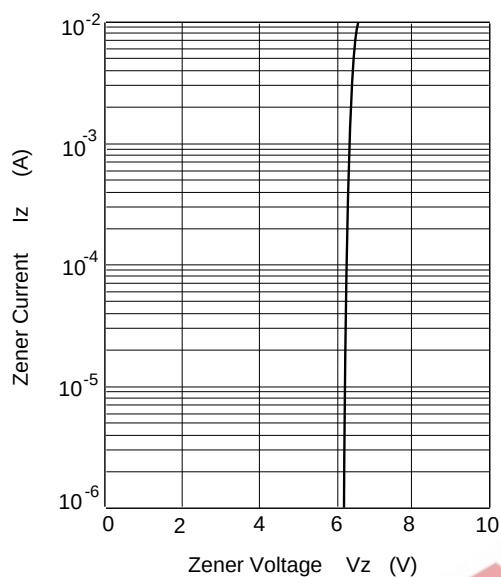
Electrical Characteristics (Ta = 25°C) ^{*1}

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V _z	5.90	—	6.50	V	I _z = 5 mA, 40ms pulse
Reverse current	I _R	—	—	3	μA	V _R = 5.5V
Capacitance	C	—	8.0	8.5	pF	V _R = 0V, f = 1 MHz
Dynamic resistance	r _d	—	—	60	Ω	I _z = 5 mA
ESD-Capability ²	—	13	—	—	kV	C = 150pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes 1. Per one device.

2. Failure criterion ; I_R > 3 μA at V_R = 5.5V.

Main Characteristic



HZM6.2ZWA

Main Characteristic

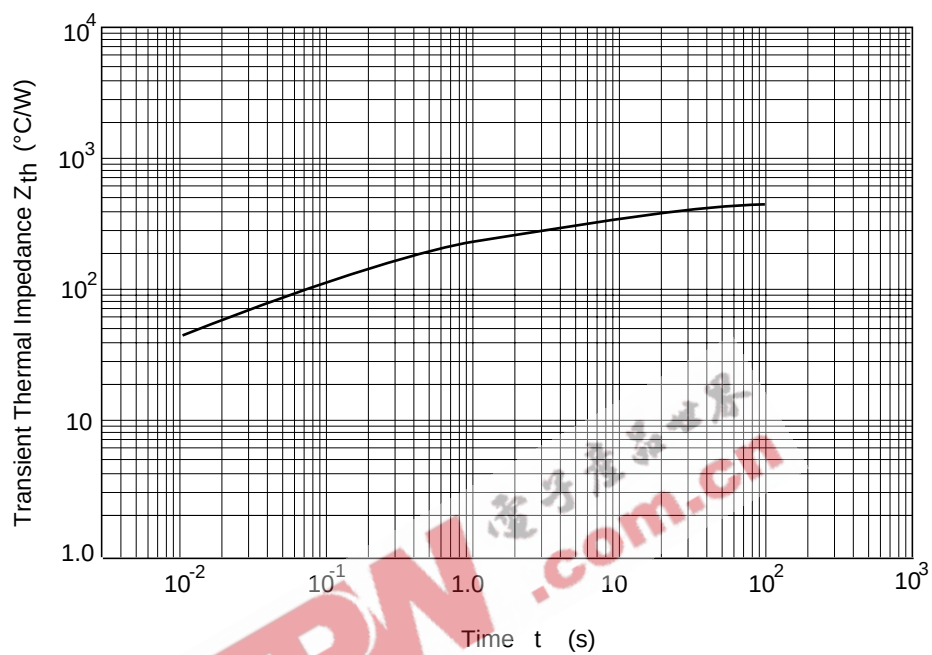


Fig.4 Transient Thermal Impedance

The mechanical drawing shows three views of the MP-62Z package:

- Top View:** A rectangular package with a central area labeled "62Z". Dimensions include a total width of $2.8^{+0.3}_{-0.1}$, a central width of 1.9 , and two side widths of 0.95 . The distance from the center to the edge is $0.65^{+0.1}_{-0.3}$. The overall height is $2.8^{+0.2}_{-0.6}$, with a central section of 1.5 and a bottom section of $0.65^{+0.1}_{-0.3}$. A "Laser Mark" is indicated near the top edge.
- Side View:** Shows the profile of the package with a maximum height of $1.1^{+0.2}_{-0.1}$.
- End View:** Shows the gull-wing leads with a lead width of $0.16^{+0.10}_{-0.06}$ and a lead spread dimension of $0 - 0.10$.

A small icon of the package is shown in the upper right corner.

1 Cathode	
2 Cathode	
3 Anode	
Hitachi Code	MPAK(1)
JEDEC Code	—
EIAJ Code	SC-59A
Weight (g)	0.011

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