

HZM7.5FA

Silicon Epitaxial Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-616 (Z)

Rev 0

Apr. 1998

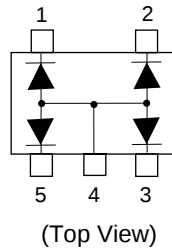
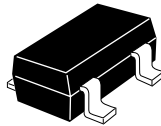
Features

- HZM7.5FA 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
HZM7.5FA	75A	MPAK-5

Outline



- 1 Cathode
- 2 Cathode
- 3 Cathode
- 4 Anode
- 5 Cathode

(Top View)

HZM7.5FA

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. Four device total, With P.C board.

Electrical Characteristics (Ta = 25°C) ^{*2}

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V _z	7.06	—	7.84	V	I _z = 5 mA, 40ms pulse
Reverse current	I _R	—	—	2	μA	V _R = 4V
Capacitance	C	—	—	125	pF	V _R = 0V, f = 1 MHz
Dynamic resistance	r _d	—	—	30	Ω	I _z = 5 mA
ESD-Capability ^{*1}	—	30	—	—	kV	C =150pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes 1. Failure criterion ; IR > 2 μA at VR = 4V.
2. Per one device.

Main Characteristic

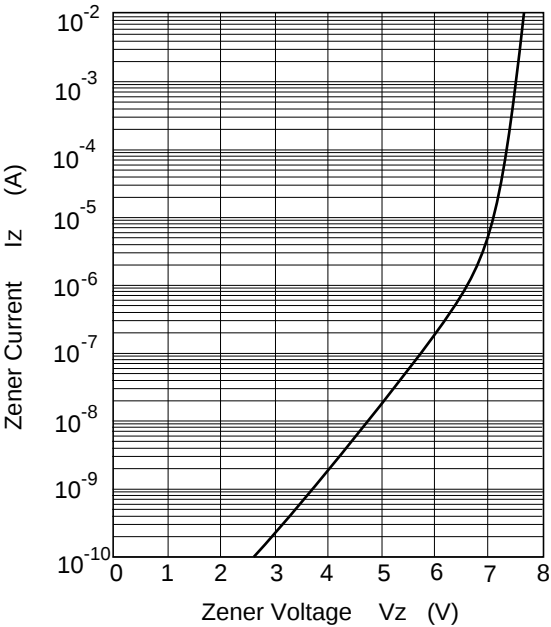


Fig.1 Zener current Vs. Zener voltage

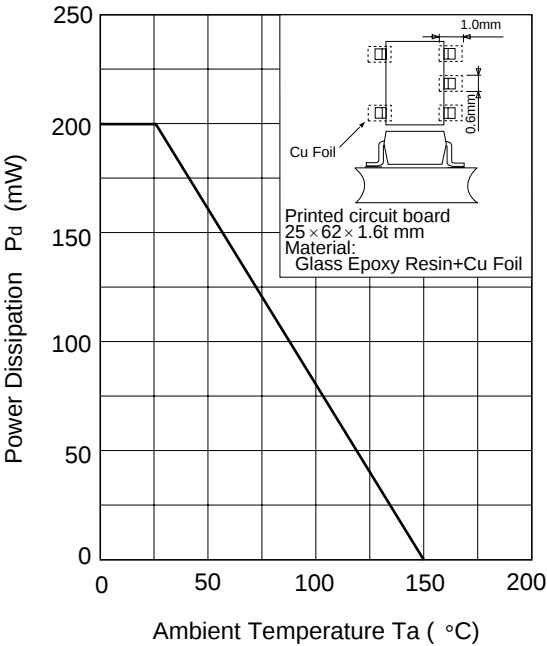


Fig.2 Power Dissipation Vs. Ambient Temperature

Main Characteristic

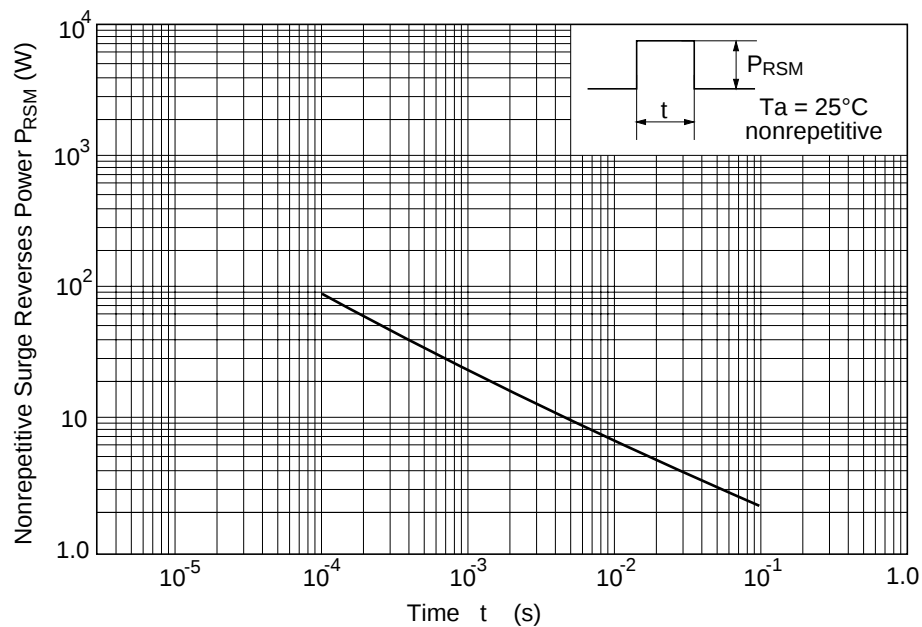


Fig.3 Surge Reverse Power Ratings

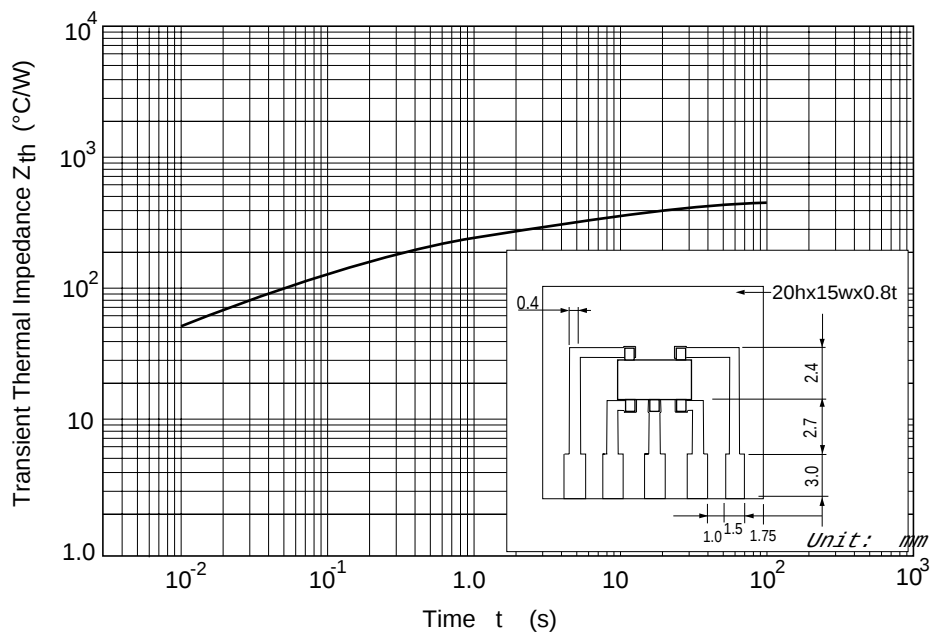


Fig.4 Transient Thermal Impedance

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