

HZM6.8Z4MFA

Silicon Planar Zener Diode for Surge Absorb

REJ03G0203-0100Z

Rev.1.00

Mar.29.2004

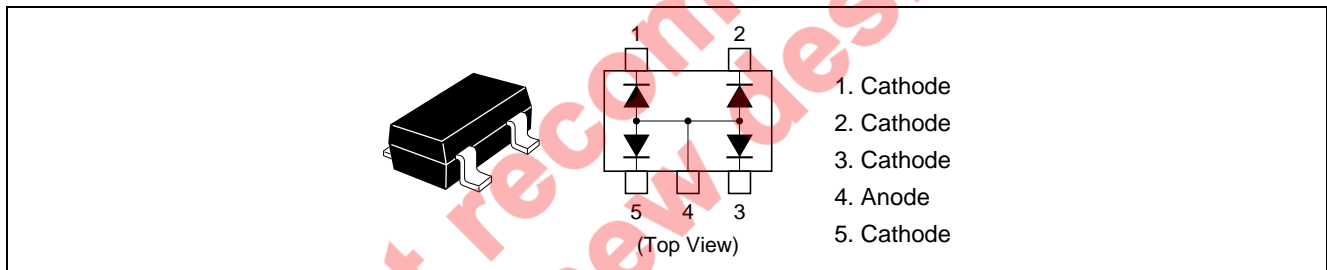
Features

- HZM6.8Z4MFA has four devices in a monolithic, and can absorb surge.
- Low capacitance ($C = 4.0 \text{ pF Typ} / 4.5 \text{ pF max}$) and can protect ESD of signal line.
- MPAK-5 Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HZM6.8Z4MFA	N2	MPAK-5

Pin Arrangement



Absolute Maximum Ratings(T_a = 25°C)

Item	Symbol	Value	Unit
Power dissipation	P _d *	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Note: Four device total, See Fig.2.

Electrical Characteristics *¹(T_a = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V _Z	6.47	—	7.00	V	I _Z = 5 mA, 40 ms pulse
Reverse current	I _R	—	—	2	μA	V _R = 3.5 V
Capacitance	C	—	4.0	4.5	pF	V _R = 0 V, f = 1 MHz
Dynamic resistance	r _d	—	—	30	Ω	I _Z = 5 mA
ESD-Capability * ²	—	8	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes: 1. Per one device.

2. Failure criterion ; I_R > 2 μA at V_R = 3.5 V.

Not recommended
for new design

Main Characteristic

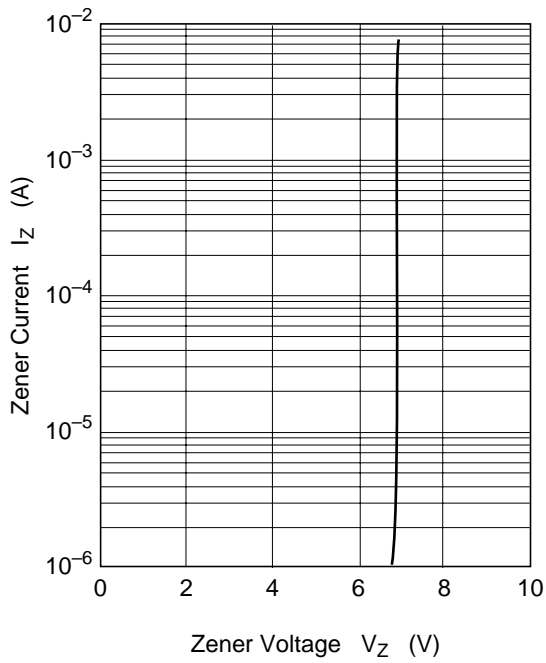


Fig.1 Zener current vs. Zener voltage

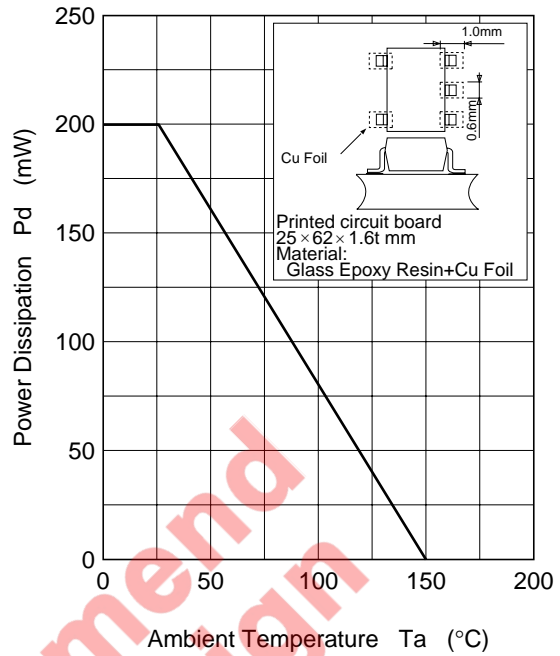


Fig.2 Power Dissipation vs. Ambient Temperature

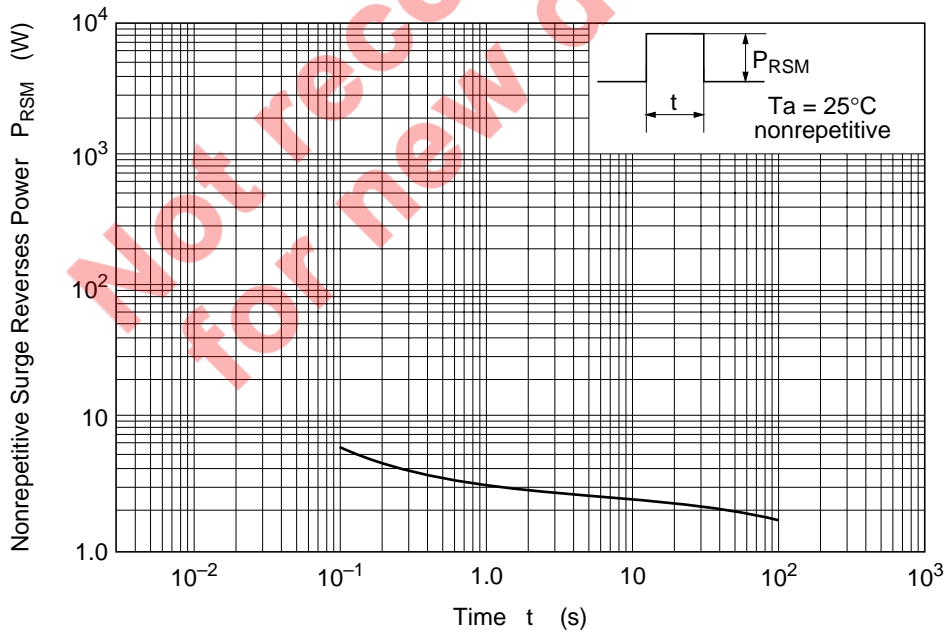
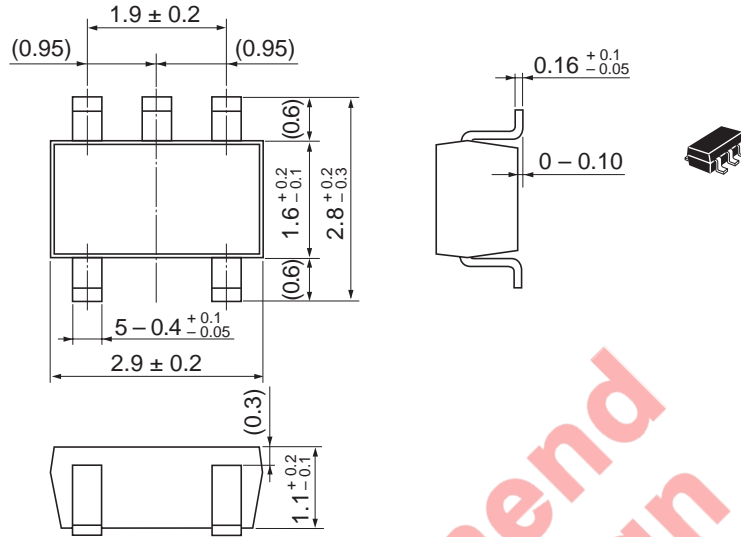


Fig.3 Surge Reverse Power Ratings

Package Dimensions

As of January, 2003
Unit: mm



Package Code	MPAK-5
JEDEC	—
JEITA	—
Mass (reference value)	0.013 g

Not recommend
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April 1st, 2010
Renesas Electronics Corporation

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