Silicon Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-783B (Z)

Rev.2 Nov. 2001

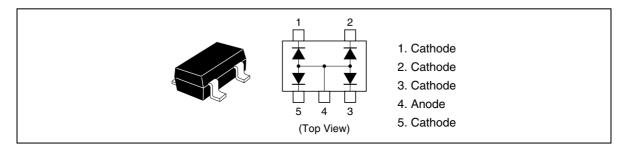
Features

- HZM6.8ZMFA has four devices in a monolithic, and can absorb surge.
- Low capacitance (C = 25 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
HZM6.8ZMFA	68N	MPAK-5

Pin Arrangement





Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

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

Note: Four device total, See Fig.2.

Electrical Characteristics*¹

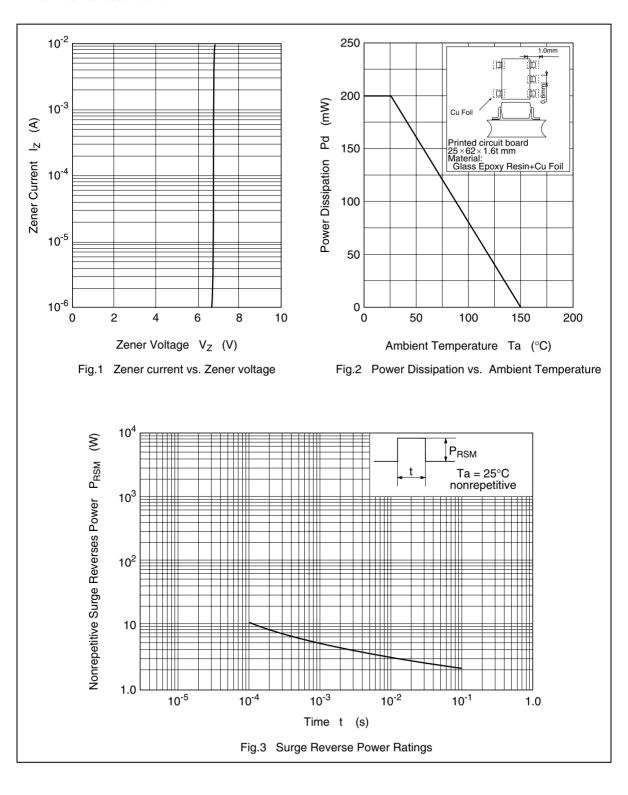
 $(Ta = 25^{\circ}C)$

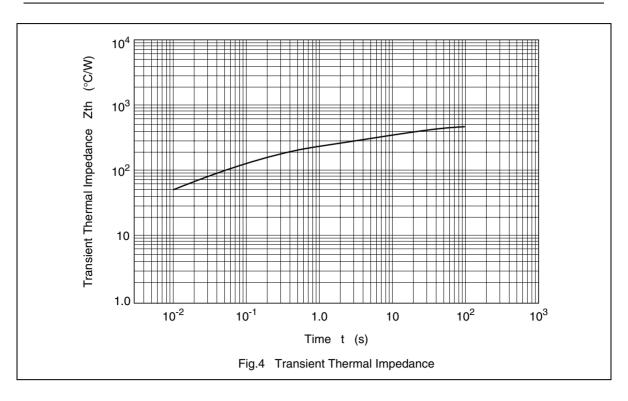
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	V _z	6.47	_	7.00	V	$I_z = 5 \text{ mA}, 40 \text{ ms pulse}$
Reverse current	I _R	_	_	2	μΑ	V _R = 3.5 V
Capacitance	С	_	_	25	pF	V _R = 0 V, f = 1 MHz
Dynamic resistance	r _d	_	_	30	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2 *3	_	25	_	_	kV	$C = 150 \text{ pF}, R = 330 \Omega$, Both forward and reverse direction 10 pulse

Notes: 1. Per one device.

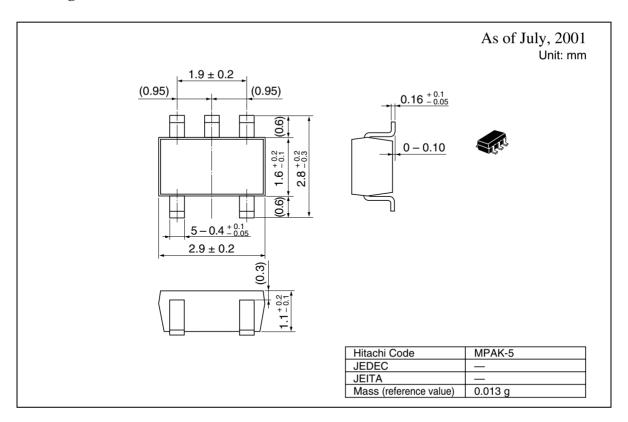
- 2. Failure criterion ; $I_{\mbox{\tiny R}} > 2~\mu\mbox{A}$ at $V_{\mbox{\tiny R}} = 3.5~\mbox{V}.$
- 3. Between cathode and anode.

Main Characteristic





Package Dimensions



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