HZB6.8ZMFA

Silicon Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-993A (Z)

Rev.1 Nov. 2001

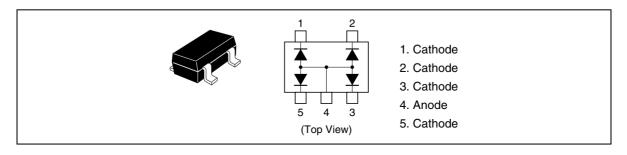
Features

- HZB6.8ZMFA has four devices in a monolithic, and can absorb surge.
- Low capacitance (C = 25 pF max) and can protect ESD of signal line.
- CMPAK-5 Package is suitable for high density surface mounting.

Ordering Information

Type No.	Laser Mark	Package Code
HZB6.8ZMFA	68N	CMPAK-5

Pin Arrangement





HZB6.8ZMFA

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

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

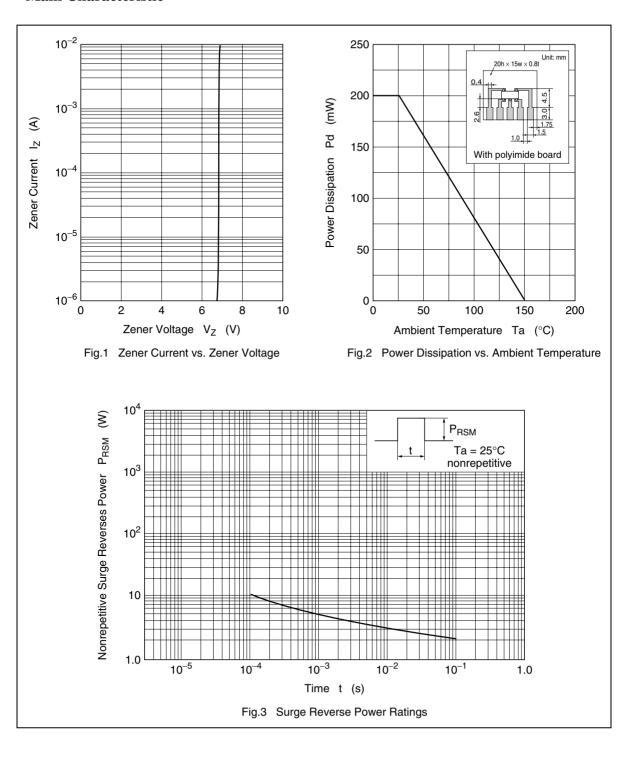
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	V _z	6.47	_	7.00	V	$I_z = 5$ mA, 40 ms pulse
Reverse current	I _R	_	_	2	μΑ	V _R = 3.5 V
Capacitance	С	_	_	25	pF	V _R = 0 V, f = 1 MHz
Dynamic resistance	r _d	_	_	30	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2, *3	_	25	_	_	kV	C = 150 pF, R = 330 Ω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

Notes: 1. Per one device.

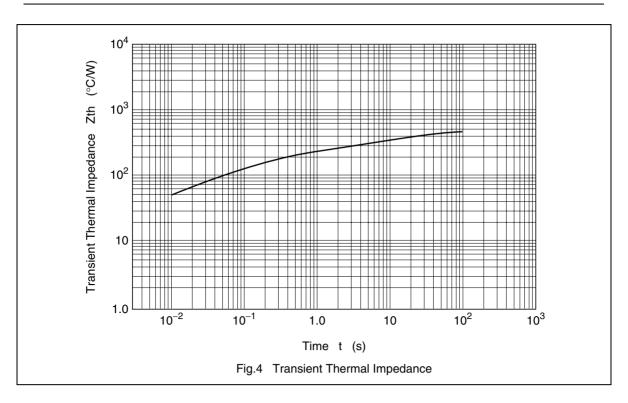
2. Failure criterion ; $I_{\scriptscriptstyle R}$ > 2 μA at $V_{\scriptscriptstyle R}$ = 3.5 V.

3. Between cathode and anode

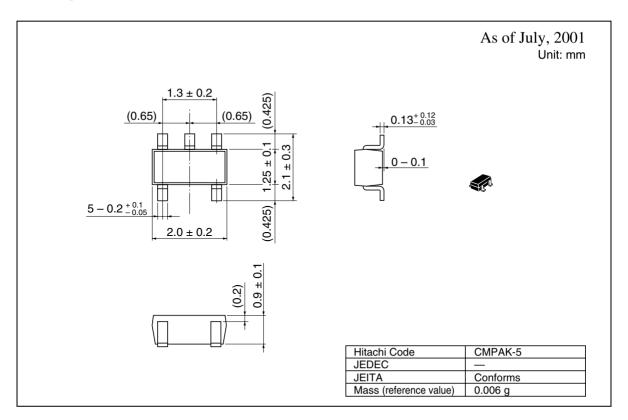
Main Characteristic



HZB6.8ZMFA



Package Dimensions



HZR6.8ZMFA

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