Silicon Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-822A (Z)

Rev.1 Nov. 2001

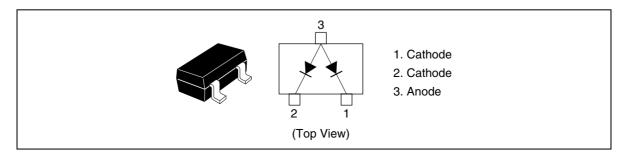
Features

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

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: Two device total, See Fig.2.

Electrical Characteristics*1

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

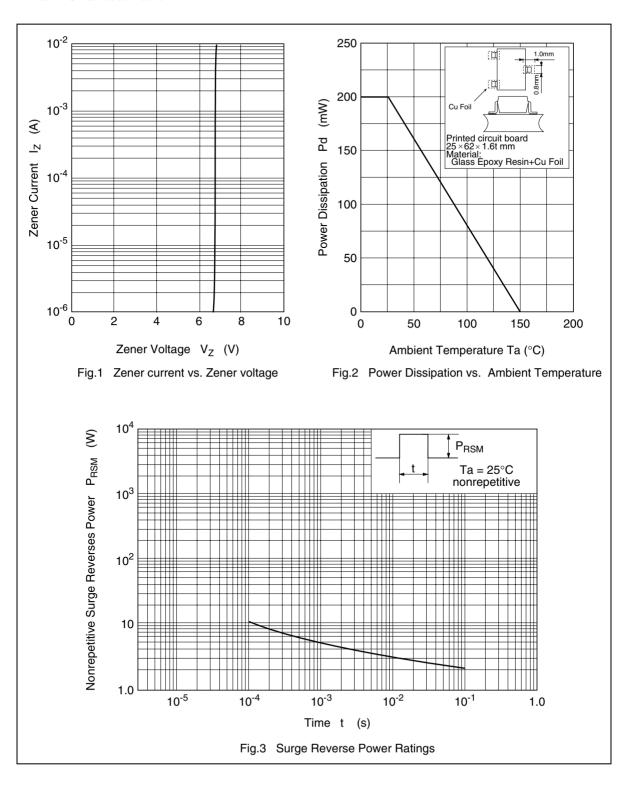
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	V _z	6.47	_	7.00	V	$I_z = 5 \text{ mA}, 40 \text{ ms pulse}$
Reverse current	I _R	_	_	2	μΑ	V _R = 3.5 V
Capacitance	С	_	_	25	pF	V _R = 0 V, f = 1 MHz
Dynamic resistance	r _d	_	_	30	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2, *3	_	20	_	_	kV	$C = 150$ pF, $R = 330 \Omega$, Both forward and reverse direction 10 pulse

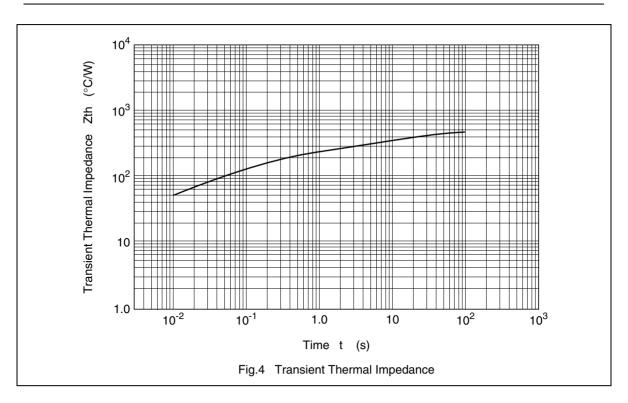
Notes: 1. Per one device.

2. Failure criterion ; $I_{\mbox{\tiny R}} > 2~\mu\mbox{A}$ at $V_{\mbox{\tiny R}} = 3.5~\mbox{V}.$

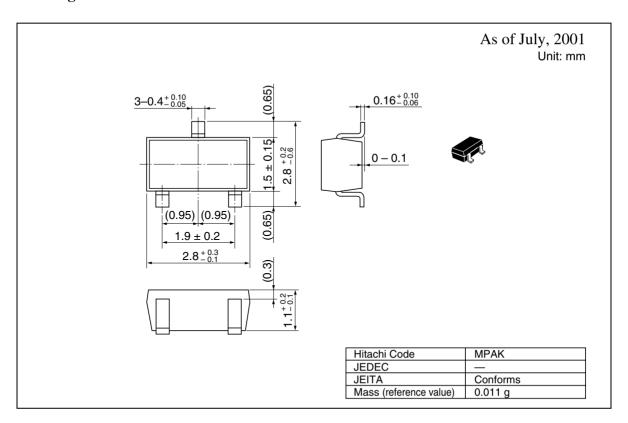
3. Between cathode and anode.

Main Characteristic





Package Dimensions



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