HZM6.8MFA

Silicon Planar Zener Diode for Surge Absorb

REJ03G1209-0200
(Previous: ADE-208-833A)
Rev.2.00
Jun 13, 2005

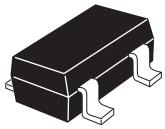
Features

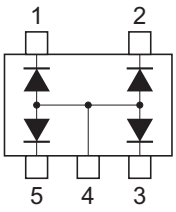
- HZM6.8MFA has four devices in a monolithic, and can absorb surge.
- MPAK-5 Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
HZM6.8MFA	68M	MPAK-5	PLSP0005ZC-A (MPAK-5)

Pin Arrangement





(Top View)

1. Cathode
2. Cathode
3. Cathode
4. Anode
5. Cathode

Absolute Maximum Ratings

(Ta = 25°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°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	—	—	130	pF	V_R = 0 V, f = 1 MHz
Dynamic resistance	r_d	—	—	30	Ω	I_Z = 5 mA
ESD-Capability *2	—	30	—	—	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.

Main Characteristic

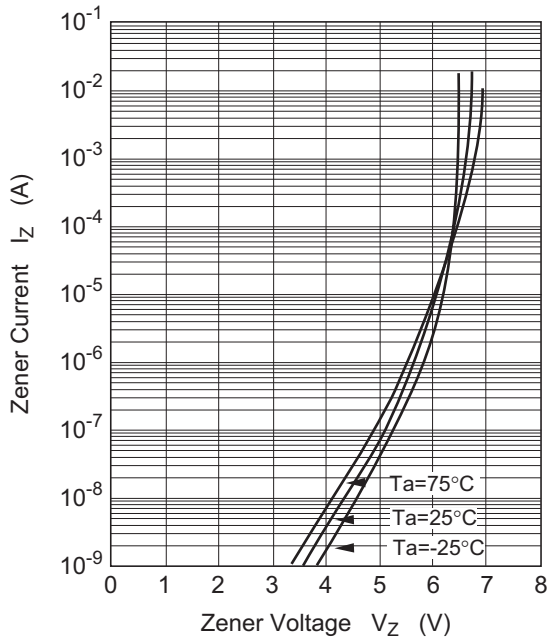


Fig.1 Zener current vs. Zener voltage

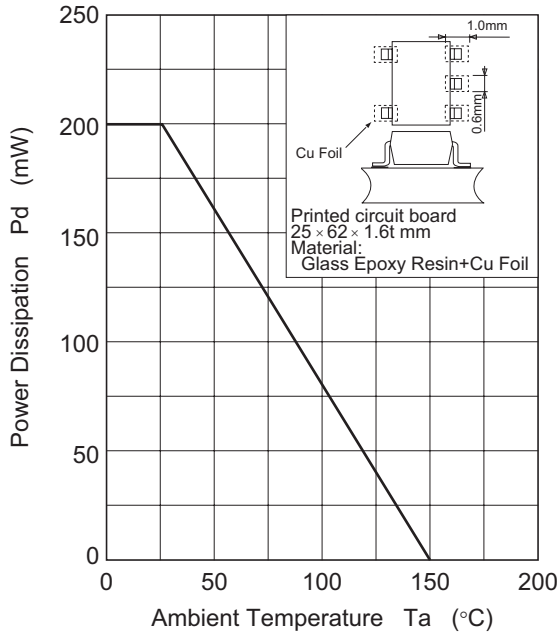
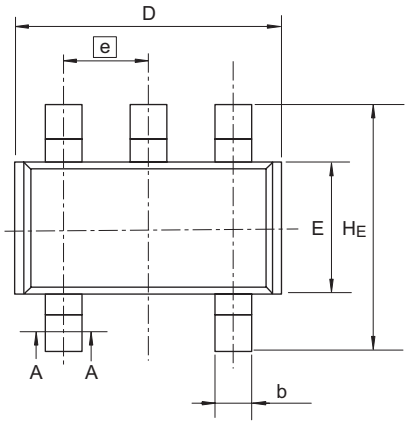
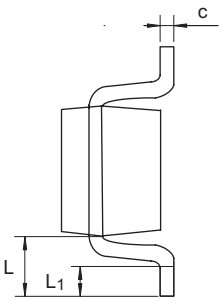


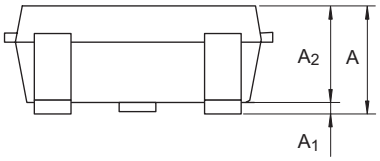
Fig.2 Power Dissipation vs. Ambient Temperature

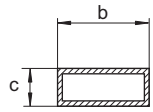
Package Dimensions

JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
SC-74A	PLSP0005ZC-A	MPAK-5 / MPAK-5V	0.013g

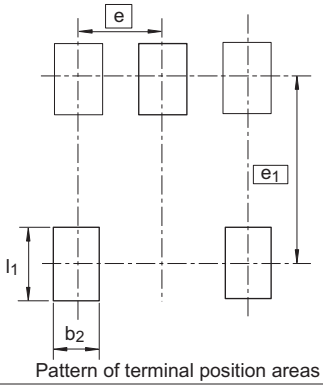








A — A Section



Pattern of terminal position areas

Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
A	1.0	-	1.4
A_1	0	-	0.1
A_2	1.0	1.1	1.3
b	0.3	0.4	0.5
c	0.11	0.16	0.26
D	2.7	2.9	3.1
E	1.5	1.6	1.8
e	-	0.95	-
H_E	2.5	2.8	3.0
L	-	0.6	-
L_1	0.15	-	-
b_2	-	-	0.55
e_1	-	2.15	-
l_1	-	-	0.85

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http://www.renesas.com

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Colophon 2.0