

HZM6.8ZMWA

Silicon Planar Zener Diode for Surge Absorb

REJ03G1212-0200

(Previous: ADE-208-822A)

Rev.2.00 Jun 14, 2005

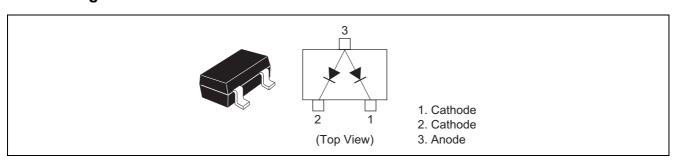
Features

- 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 Name	Package Code (Previous Code)
HZM6.8ZMWA	68N	MPAK	PLSP0003ZC-A (MPAK)

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Symbol Value	
Power dissipation	Pd *1	200	mW
Junction temperature	Тј	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: 1. Two device total, See Fig.2.

Electrical Characteristics *1

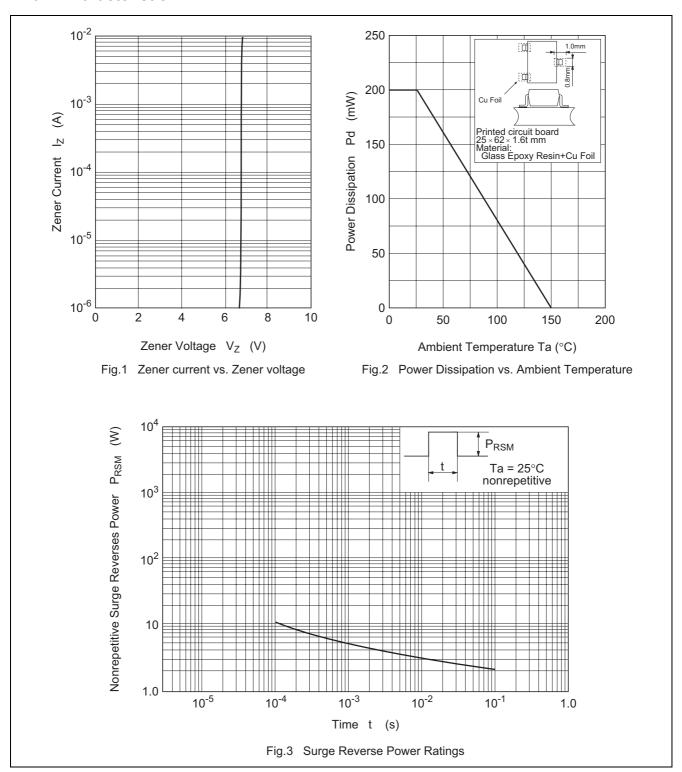
 $(Ta = 25^{\circ}C)$

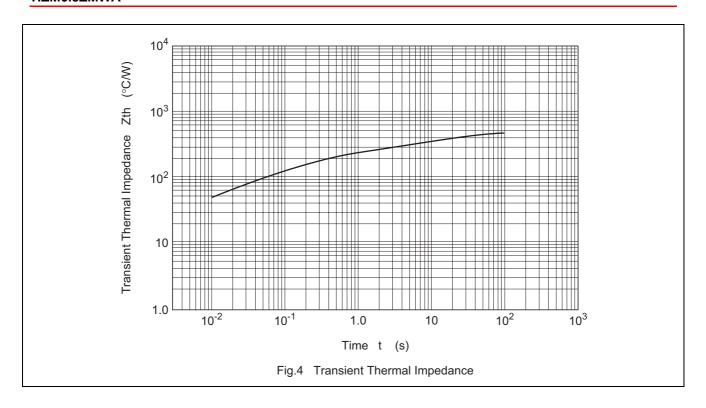
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	Vz	6.47	_	7.0	V	I_Z = 5 mA, 40 ms pulse
Reverse current	I _R	_	_	2	μΑ	V _R = 3.5 V
Capacitance	С	_	_	25	pF	V _R = 0 V, f = 1 MHz
Dynamic resistance	r _d	_	_	30	Ω	$I_Z = 5 \text{ mA}$
ESD-Capability *2	_	20	_	_	kV	C = 150 pF, R = 330 Ω , Both forward and reverse direction 10 pulse

Notes: 1. Per one device

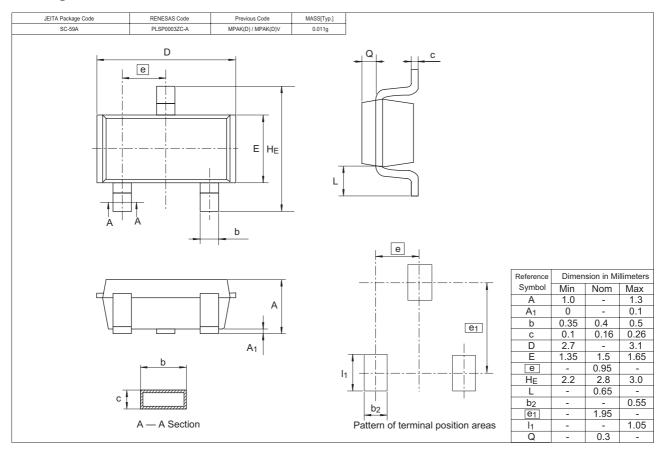
2. Failure criterion ; $I_R > 2~\mu\text{A}$ at V_R = 3.5 V.

Main Characteristic





Package Dimensions



Renesas Technology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

Keep safety first in your circuit designs!

1. Renesas Technology Corp. puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage.

Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or (iii) prevention against any malfunction or mishap.

- Notes regarding these materials

 1. These materials are intended as a reference to assist our customers in the selection of the Renesas Technology Corp. product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Renesas Technology Corp. a third party.

 2. Renesas Technology Corp. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials, and are subject to change by Renesas Technology Corp. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Renesas Technology Corp. or an authorized Renesas Technology Corp. product distributor for the latest product information before purchasing a product listed herein.

 The information described here may contain technical inaccuracies or typographical errors.

 Renesas Technology Corp. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors.

 Please also pay attention to information published by Renesas Technology Corp. by various means, including the Renesas Technology Corp. Semiconductor home page (http://www.renesas.com).

 4. When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Renesas Technology Corp. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

 5. Renesas Technology Corp. semiconductors are not designed or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact Renesas Technology Corp. or an authorized Renesas Technology

- use.

 6. The prior written approval of Renesas Technology Corp. is necessary to reprint or reproduce in whole or in part these materials.

 7. If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination.

 Any diversion or reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.

 8. Please contact Renesas Technology Corp. for further details on these materials or the products contained therein.



RENESAS SALES OFFICES

http://www.renesas.com

Refer to "http://www.renesas.com/en/network" for the latest and detailed information.

Renesas Technology America, Inc. 450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K. Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology Hong Kong Ltd.
7th Floor, North Tower, World Finance Centre, Harbour City, 1 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2730-6071

Renesas Technology Taiwan Co., Ltd. 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology (Shanghai) Co., Ltd. Unit2607 Ruijing Building, No.205 Maoming Road (S), Shanghai 200020, China Tel: <86> (21) 6472-1001, Fax: <86> (21) 6415-2952

Renesas Technology Singapore Pte. Ltd.
1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001