HZU5.6Z

Silicon Epitaxial Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-795(Z) Rev 0 May. 1999

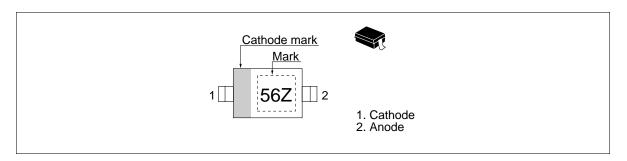
Features

- Low capacitance (C=8.5pF max) and can protect ESD of signal line.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HZU5.6Z	56Z	URP

Outline





HZU5.6Z

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

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

Note 1. See Fig.2.

Electrical Characteristics (Ta = 25° C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Zener voltage	V _z	5.31	_	5.92	V	I _Z = 5 mA, 40ms pulse
Reverse current	I _R	_	_	0.5	μΑ	V _R = 2.5V
Capacitance	С	_	8.0	8.5	pF	$V_R = 0V, f = 1 MHz$
Dynamic resistance	r _d	_	_	80	Ω	$I_Z = 5 \text{ mA}$
ESD-Capability *2	_	8	_	_	kV	C =150pF, R = 330 Ω , Both forward and reverse direction 10 pulse

Notes 1. Failure criterion; IR > 0.5 μ A at VR = 2.5V.

Main Characteristic

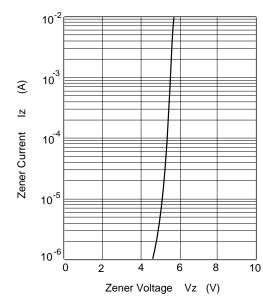


Fig.1 Zener current Vs. Zener voltage

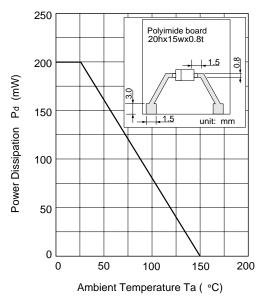
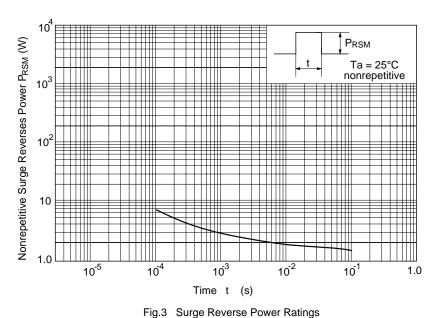
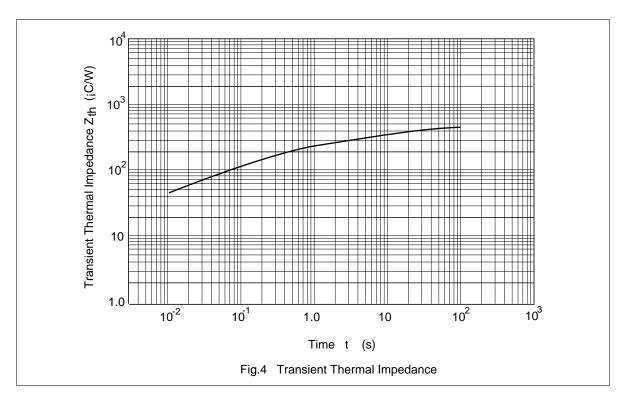


Fig.2 Power Dissipation Vs. Ambient Temperature



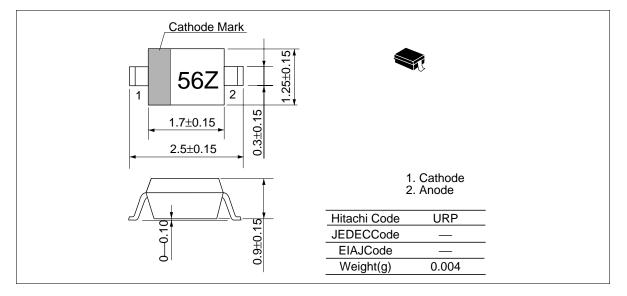
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Main Characteristic



Package Dimensions

Unit: mm



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HTACHI

Hitachi, Ltd.

Semiconductor & Integrated Circuits.

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

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For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive, San Jose,CA 95134 Tel: <1> (408) 433-1990 Fax: <1>(408) 433-0223 Hitachi Europe GmbH Electronic components Group Dornacher Stra§e 3 D-85622 Feldkirchen, Munich Germany Tel: <49> (89) 9 9180-0

Fax: <49> (89) 9 29 30 00 Hitachi Europe Ltd. Electronic Components Group. Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA, United Kingdom

Tel: <44> (1628) 585000 Fax: <44> (1628) 778322 Hitachi Asia Pte. Ltd. 16 Collyer Quay #20-00 Hitachi Tower Singapore 049318 Tel: 535-2100 Fax: 535-1533

Hitachi Asia Ltd. Taipei Branch Office 3F, Hung Kuo Building. No.167, Tun-Hwa North Road, Taipei (105) Tel: <886> (2) 2718-3666 Fax: <886> (2) 2718-8180

Hitachi Asia (Hong Kong) Ltd. Group III (Electronic Components) 7/F., North Tower, World Finance Centre, Harbour City, Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong Tel: <852> (2) 735 9218

Fax: <852> (2) 730 0281 Telex: 40815 HITEC HX

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