1SS82

Silicon Epitaxial Planar Diode for High Voltage Switching

HITACHI

ADE-208-149A (Z) Rev. 1 Jul. 1995

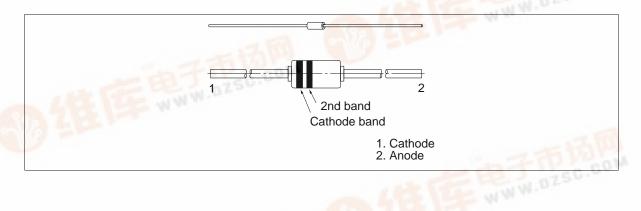
Features

- High reverse voltage. $(V_R = 200V)$
- High reliability with glass seal.

Ordering Information

Type No.	Cathode band	2nd band	Package Code
1SS82	Verdure	Light Blue	DO-35

Outline





1SS82

Absolute Maximum Ratings*2 (Ta = 25°C)

Item	Symbol	Value	Unit
Peak reverse voltage	V_{RM}^{*1}	250	V
Reverse voltage	V_R	200	V
Peak forward current	I_{FM}	625	mA
Non-Repetitive peak forward surge current	I _{FSM} *2	1	A
Average forward current	Io	200	mA
Power dissipation	Pd	400	mW
Junction temperature	Tj	175	°C
Storage temperature	Tstg	-65 to +175	°C

Notes: 1. Reverse voltage in excess of peak reverse voltage may deteriorate electrical characteristic.

2. Within 1s forward surge current.

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F}	_	_	1.0	V	I _F = 100mA
Reverse current	I _{R1}	_	_	0.2	μΑ	V _R = 200V
	I _{R2}	_	_	100		V _R = 250V
Capacitance	С	_	1.5	_	pF	V _R = 0V, f = 1MHz
Reverse recovery time	t _{rr}	_	_	100	ns	$I_F = I_R = 30$ mA, $Irr = 3$ mA, $R_L = 100$ Ω

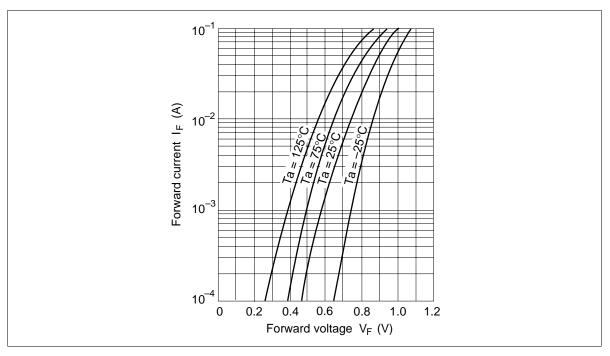


Fig.1 Forward current Vs. Forward voltage

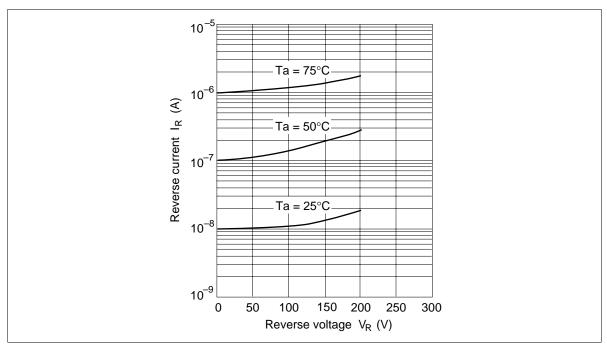


Fig.2 Reverse current Vs. Reverse voltage

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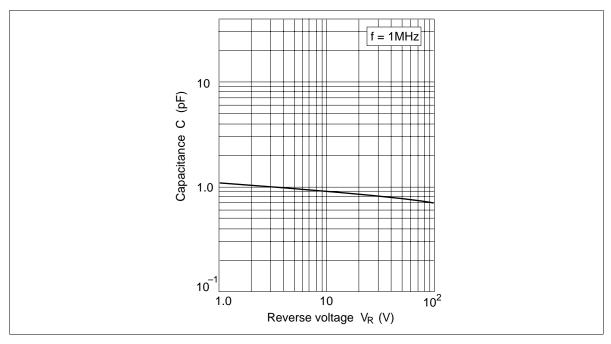
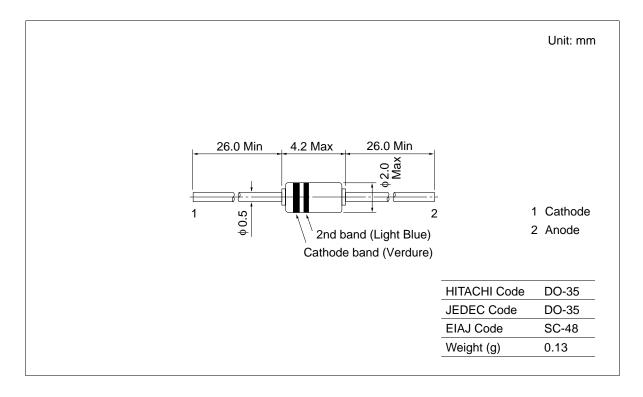


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions



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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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