HSD88

Silicon Schottky Barrier Diode for Various Detector, Mixer

HITACHI

ADE-208-1386 (Z)

Rev.0 Jun. 2001

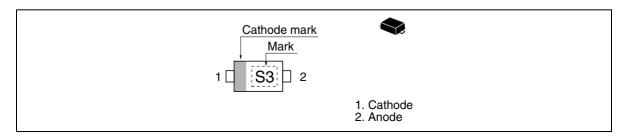
Features

- Low capacitance. (C = 0.8 pF max)
- Low forward voltage.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HSD88	S3	SFP

Outline





HSD88

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	$V_{_{\mathrm{R}}}$	10	V
Average rectified current	Io	15	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}	350	_	420	mV	I _F = 1 mA
	V _{F2}	500		580		I _F = 10 mA
Reverse current	I _{R1}	_		0.2	μΑ	V _R = 2 V
	I _{R2}	_		10		V _R = 10 V
Capacitance	С	_	_	0.8	pF	V _R = 0 V, f = 1 MHz
ESD-Capability *1	_	30	_	_	V	$C = 200 \text{ pF}, R = 0 \Omega$, Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion ; $I_R > 0.4 \mu A$ at $V_R = 2 V$

2. Please do not use the soldering iron due to avoid high stress to the SFP package.

Main Characteristic

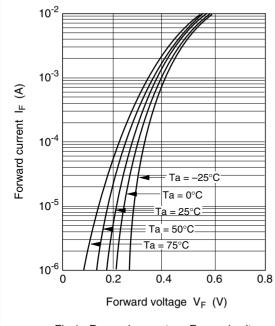


Fig.1 Forward current vs. Forward voltage

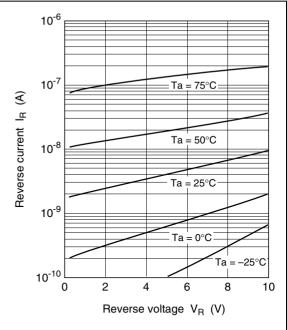


Fig.2 Reverse current vs. Reverse voltage

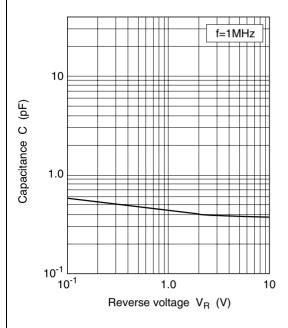
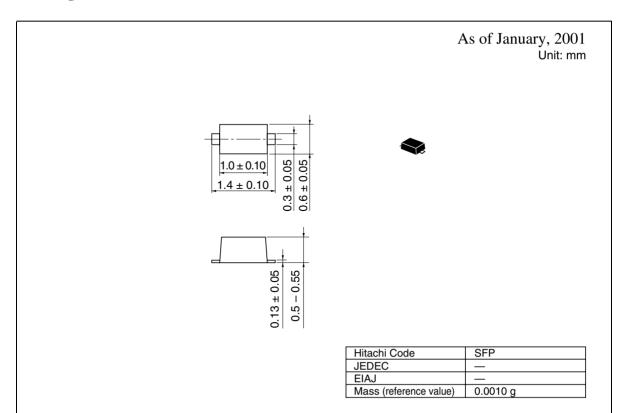


Fig.3 Capacitance vs. Reverse voltage

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Package Dimensions



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Sales Offices

IITACHI

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

NorthAmerica http://semiconductor.hitachi.com/ Europe http://www.hitachi-eu.com/hel/ecg Asia http://sicapac.hitachi-asia.com Japan : http://www.hitachi.co.jp/Sicd/indx.htm

For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive San Jose, CA 95134 Tel: <1> (408) 433-1990 Maidenhead

Hitachi Europe Ltd. Electronic Components Group Whitebrook Park Lower Cookham Road

Tel: <44> (1628) 585000 Fax: <44> (1628) 585200

Hitachi Europe GmbH Electronic Components Group Dornacher Straße 3 D-85622 Feldkirchen, Munich Germany

Tel: <49> (89) 9 9180-0 Fax: <49> (89) 9 29 30 00

Hitachi Asia Ltd. Hitachi Tower 16 Collyer Quay #20-00 Singapore 049318 Tel: <65>-538-6533/538-8577 Fax: <1>(408) 433-0223 Berkshire SL6 8YA, United Kingdom Fax: <65>-538-6933/538-3877 URL: http://www.hitachi.com.sg

> Hitachi Asia Ltd (Taipei Branch Office) 4/F. No. 167. Tun Hwa North Road Hung-Kuo Building

Taipei (105), Taiwan Tel: <886>-(2)-2718-3666 Fax: <886>-(2)-2718-8180 Telex: 23222 HAS-TP

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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 URL: http://semiconductor.hitachi.com.hk