Silicon Epitaxial Planar Diode for High Speed Switching

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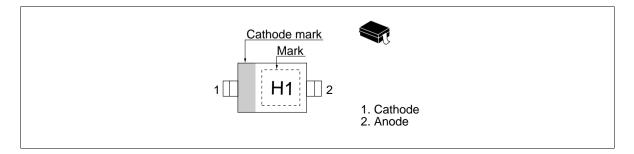
Features

- Low capacitance. (C = 2.0 pF max)
- Short reverse recovery time. $(t_{rr} = 3.0 \text{ns max})$
- Ultra small Resin Package (URP) is suitable for high density surface mounting and high speed assembly.

Ordering Information

Туре No.	Laser Mark	Package Code
HSU119	H1	URP

Outline





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

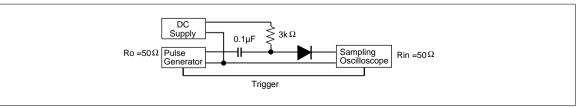
Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	85	V
Reverse voltage	V _R	80	V
Average forward current	I _o	100	mA
Peak rectified current	I _{FM}	300	mA
Non-Repetitive peak forward surge current	I _{FSM} ^{*1}	4	A
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

Note: 1. Within 1μ s forward surge current.

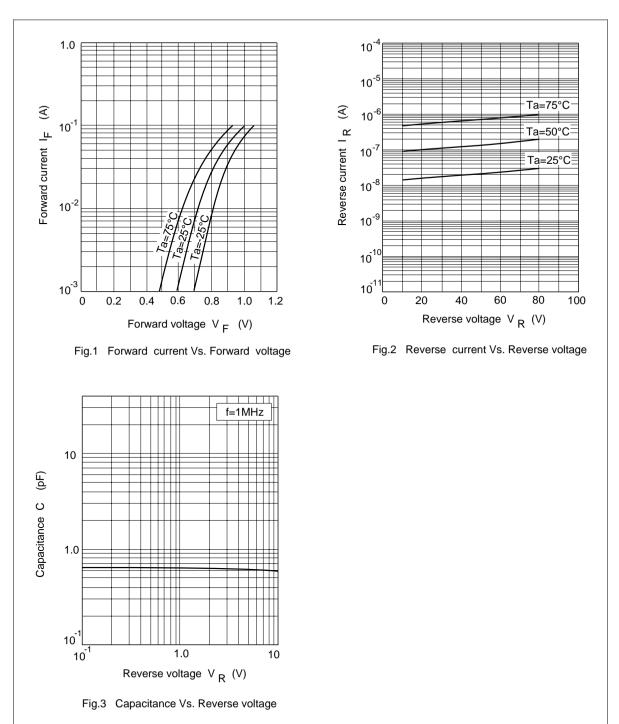
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F1}	_	_	0.8	V	I _F = 10 mA
	V_{F2}	_	—	1.2		I _F = 100 mA
Reverse current	I _R	_	—	0.1	μA	V _R = 80V
Capacitance	С	—	—	2.0	pF	$V_{R} = 0V, f = 1 MHz$
Reverse recovery time ^{*1}	t _{rr}	—	—	3.0	ns	$I_{\rm F} = 10$ mA, $V_{\rm R} = 6$ V $R_{\rm L} = 50\Omega$

Note: 1. Reverse recovery time test circuit

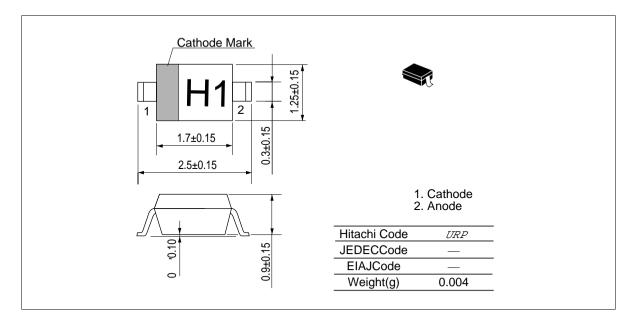


Main Characteristic



Package Dimensions

Unit : mm



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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 NorthAmerica URL http:semiconductor.hitachi.com/ http://www.hitachi-eu.com/hel/ecg Europe http://www.has.hitachi.com.sg/grp3/sicd/index.htm http://www.hitachi.com.tw/E/Product/SICD_Frame.htm Asia (Singapore) Asia (Taiwan) Asia (HongKong) http://www.hitachi.com.hk/eng/bo/grp3/index.htm http://www.hitachi.co.jp/Sicd/indx.htm Japan For further information write to: Hitachi Semiconductor Hitachi Europe GmbH Hitachi Asia Pte. Ltd. (America) Inc. Electronic components Group 16 Collyer Quay #20-00 179 East Tasman Drive, Dornacher Stra§e 3 Hitachi Tower San Jose,CA 95134 D-85622 Feldkirchen, Munich Singapore 049318 Tel: <1> (408) 433-1990 Fax: <1>(408) 433-0223 Germany Tel: 535-2100 Tel: <49> (89) 9 9180-0 Fax: 535-1533 Fax: <49> (89) 9 29 30 00

 Fax: <49> (89) 9 29 30 00
 Hita

 Hitachi Europe Ltd.
 Hita

 Electronic Components Group.
 Taip

 Whitebrook Park
 3F,

 Lower Cookham Road
 Tun

 Maidenhead
 Tel:

 Berkshire SL6 8YA, United Kingdom
 Fax

 Tel: <44> (1628) 585000

 Fax: <44> (1628) 778322

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

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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 Telex: 40815 HITEC HX

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