HVM14SR

Silicon Epitaxial Planar PIN Diode for High Frequency Attenuator

HITACHI

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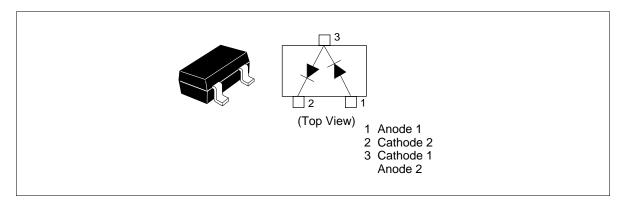
Features

- Low forward resistance. (rf = 7.0Ω max)
- Low capacitance. (C=0.25pF typ)
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HVM14SR	H7	MPAK

Outline





HVM14SR

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

Item	Symbol	Value	Unit		
Reverse voltage	V_R	50	V		
Forward current	l _F	50	mA		
Power dissipation	P _d *1	100	mW		
Junction temperature	Tj	125	°C		
Storage temperature	Tstg	-55to+125	°C		

Note: 1. Two device total.

Electrical Characteristics (Ta = 25° C) *2

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F}	_	_	1.0	V	$I_F = 50 \text{ mA}$
Reverse current	I _R	_	_	100	nA	V _R = 50V
Capacitance	С	_	0.25	_	pF	$V_R = 50V, f = 1 MHz$
Forward resistance	r _f	_	_	7	Ω	I _F = 10 mA, f = 100 MHz
ESD-Capability *1	_	200	_	_	V	C=200pF, Both forward and reverse direction 1 pulse

Note: 1. Failure criterion ; $I_R \ge 200$ nA at VR =50 V

Note: 2. Per one device.

Main Characteristic

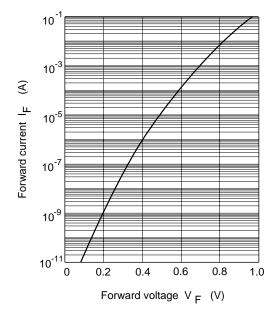


Fig.1 Forward current Vs. Forward voltage

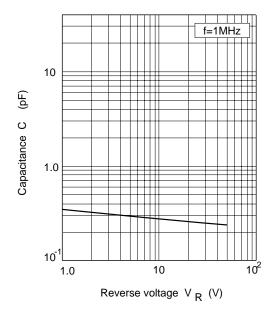


Fig.3 Capacitance Vs. Reverse voltage

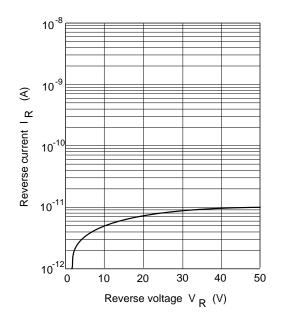


Fig.2 Reverse current Vs. Reverse voltage

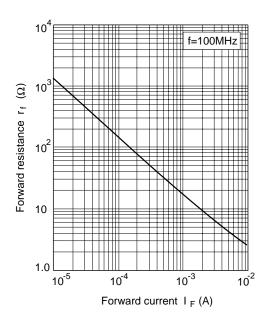
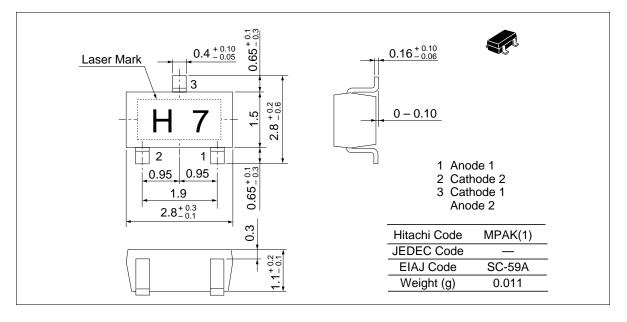


Fig.4 Forward resistance Vs. Forward current

HVM14SR

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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