HSM126S

Silicon Schottky Barrier Diode for System Protection

HITACHI

ADE-208-111C (Z) Rev. 3 May 1995

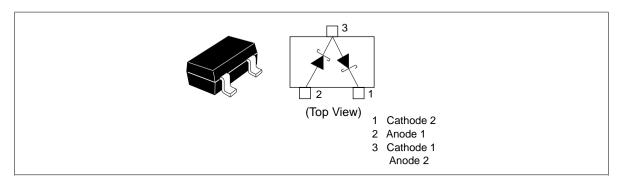
Features

- HSM126S which is connected in series configuration enable to protect electric systems from missoperation against external + and – surge.
- Low V_F and low leakage current.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM126S	S14	MPAK

Pin Arrangement





HSM126S

Absolute Maximum Ratings (Ta = 25°C)*3

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	20	V
Average forward current	I ₀ *1	200	mA
Non-Repetitive peak forward surge current	I _{FSM} *2	2	А
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Notes: 1. Sine wave, Two device total

2. 50Hz half sine wave 1 pulse

3. Per one device

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	2.0	μΑ	$V_R = 5V$
Forward voltage	V _F	_	_	0.35	V	I _F = 10mA
Capacitance	С	_	40	_	pF	V _R = 0V, f = 1MHz

Note: Per one device

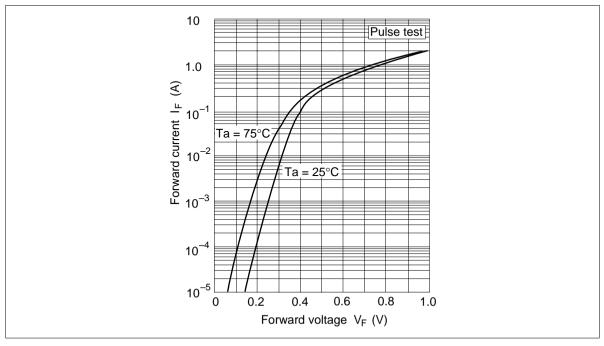


Fig.1 Forward current Vs. Forward voltage

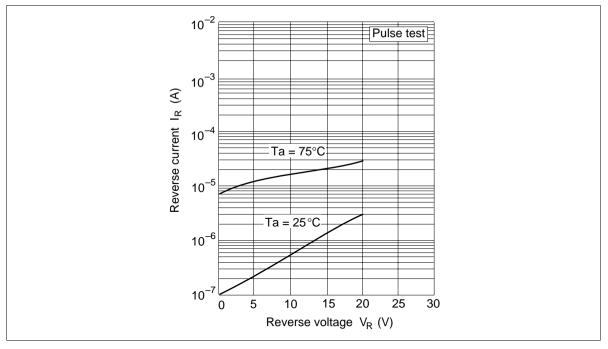


Fig.2 Reverse current Vs. Reverse voltage

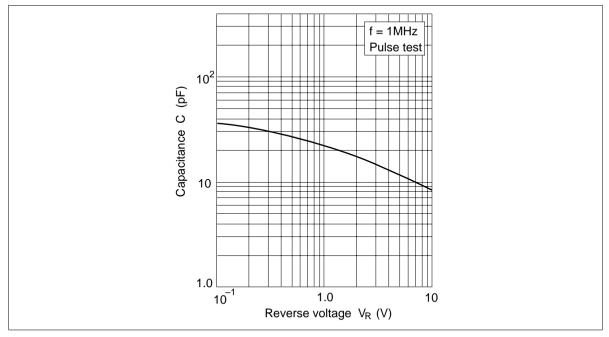
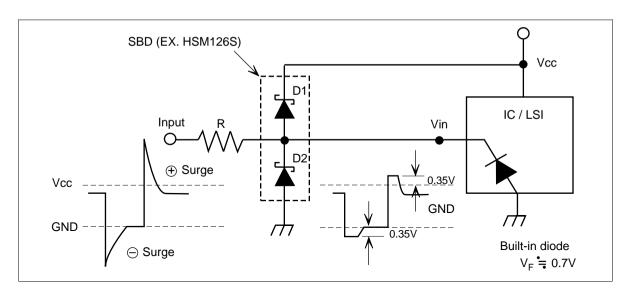


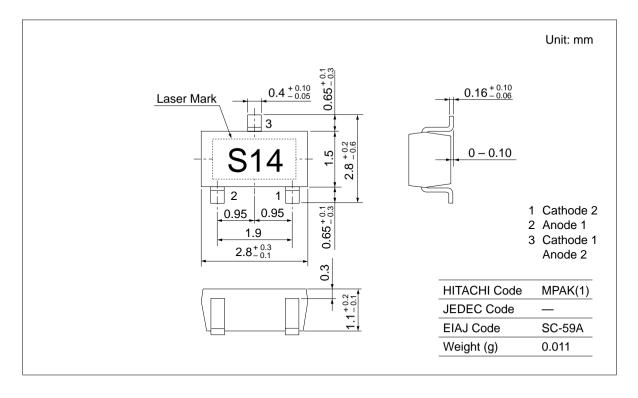
Fig.3 Capacitance Vs. Reverse voltage

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Example of application circuite



Package Dimensions



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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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