## **HSB226YP**

## Silicon Schottky Barrier Diode

## **HITACHI**

ADE-208-842(Z) Rev. 0 Mar. 2000

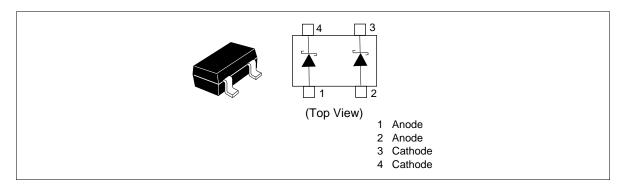
#### **Features**

- Low reverse current, Low capacitance.
- CMPAK-4 Package is suitable for high density surface mounting and high speed assembly.

#### **Ordering Information**

Type No.	Laser Mark	Package Code
HSB226YP	E5	CMPAK-4

#### **Outline**





### HSB226YP

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

Item	Symbol	Value	Unit	
Repetitive peak reverse voltage	$V_{RRM}$	25	V	
Non-Repetitive peak forward surge current	I <sub>FSM</sub> *1*2	200	mA	
forward current	I <sub>F</sub> *2	50	mA	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Notes: 1. 10msec sine wave 1 pulse

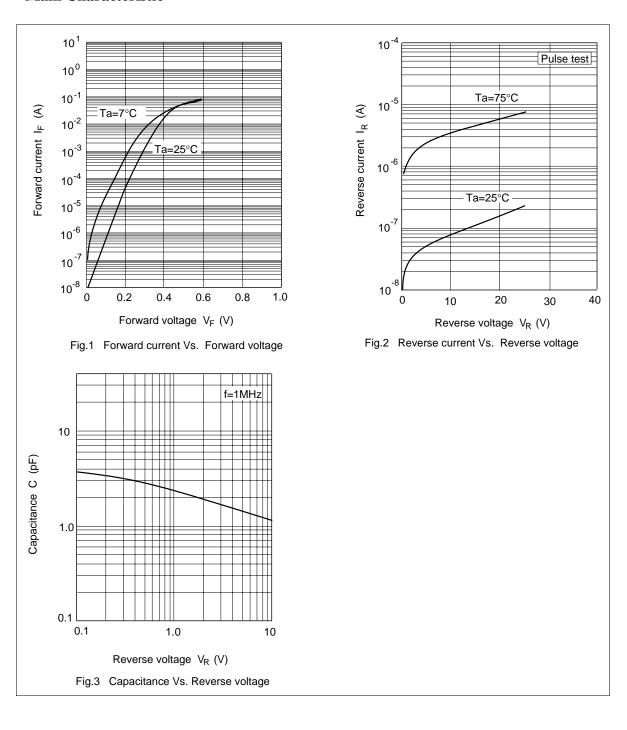
Notes: 2. Two device total

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	$V_{F1}$	-	-	0.33	V	I <sub>F</sub> = 1 mA
	$V_{F2}$	_	_	0.38	V	I <sub>F</sub> = 5 mA
Reverse current	I <sub>R</sub>	-	_	0.45	μΑ	$V_R = 20V$
Capacitance	С	-	-	2.80	pF	V <sub>R</sub> = 1V, f = 1 MHz

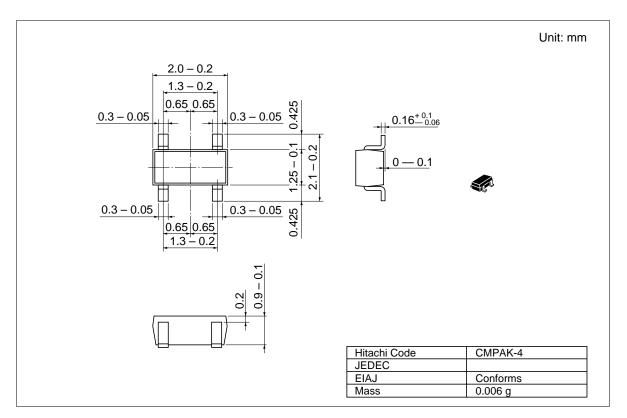
Note: 1. Per one device

### **Main Characteristic**



### HSB226YP

### **Package Dimensions**



#### **Cautions**

- 1. Hitachi neither warrants nor grants licenses of any rights of Hitachi's or any third party's patent, copyright, trademark, or other intellectual property rights for information contained in this document. Hitachi bears no responsibility for problems that may arise with third party's rights, including intellectual property rights, in connection with use of the information contained in this document.
- 2. Products and product specifications may be subject to change without notice. Confirm that you have received the latest product standards or specifications before final design, purchase or use.
- 3. Hitachi makes every attempt to ensure that its products are of high quality and reliability. However, contact Hitachi's sales office before using the product in an application that demands especially high quality and reliability or where its failure or malfunction may directly threaten human life or cause risk of bodily injury, such as aerospace, aeronautics, nuclear power, combustion control, transportation, traffic, safety equipment or medical equipment for life support.
- 4. Design your application so that the product is used within the ranges guaranteed by Hitachi particularly for maximum rating, operating supply voltage range, heat radiation characteristics, installation conditions and other characteristics. Hitachi bears no responsibility for failure or damage when used beyond the guaranteed ranges. Even within the guaranteed ranges, consider normally foreseeable failure rates or failure modes in semiconductor devices and employ systemic measures such as failsafes, so that the equipment incorporating Hitachi product does not cause bodily injury, fire or other consequential damage due to operation of the Hitachi product.
- 5. This product is not designed to be radiation resistant.
- 6. No one is permitted to reproduce or duplicate, in any form, the whole or part of this document without written approval from Hitachi.
- 7. Contact Hitachi's sales office for any questions regarding this document or Hitachi semiconductor products.

# IITACHI

#### 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 URL

NorthAmerica http:semiconductor.hitachi.com/ http://www.hitachi-eu.com/hel/ecg Europe Asia (Singapore)

http://www.has.hitachi.com.sg/grp3/sicd/index.htm http://www.hitachi.com.tw/E/Product/SICD\_Frame.htm Asia (Taiwan) Asia (HongKong) http://www.hitachi.com.hk/eng/bo/grp3/index.htm http://www.hitachi.co.jp/Sicd/index.htm Japan

#### 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

Copyright ' Hitachi, Ltd., 2000. All rights reserved. Printed in Japan.