# **HVD369B**

## Variable Capacitance Diode for VCO

# **HITACHI**

ADE-208-850 (Z)

Rev. 0 Jun. 2000

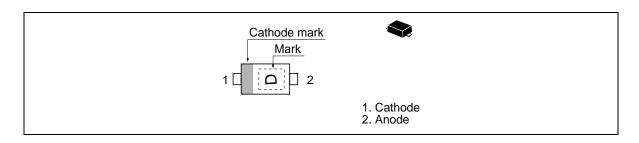
### **Features**

- Low capacitance and to be usable at GHz.
- High capacitance ratio. (n = 2.3 min)
- Low series resistance. ( $r_s = 0.5 \Omega \text{ max}$ )
- Super small Flat Package (SFP) is suitable for surface mount design.

## **Ordering Information**

Type No.	Laser Mark	Package Code
HVD369B	D	SFP

### **Outline**





## HVD369B

## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

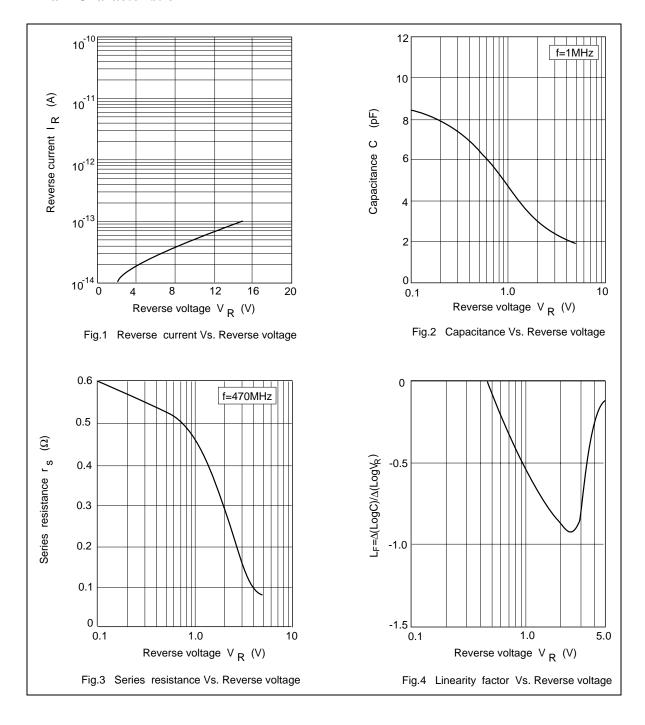
### **Electrical Characteristics**

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>		_	100	_	V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	4.65	_	5.15	pF	V <sub>R</sub> = 1 V, f = 1 MHz
	C <sub>4</sub>	1.85	_	2.15		V <sub>R</sub> = 4 V, f = 1 MHz
Capacitance ratio	n	2.3	_	_	_	C <sub>1</sub> / C <sub>4</sub>
Series resistance	r <sub>s</sub>	_	_	0.5	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

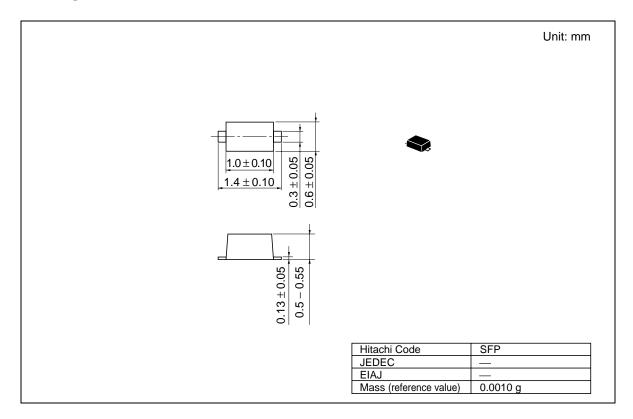
Note: Please do not use the soldering iron due to avoid high stress to the SFP package.

### **Main Characteristic**



## HVD369B

## **Package Dimensions**



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#### Sales Offices

# HITACHI

Hitachi, Ltd.

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

Hitachi Europe Ltd.

URL

NorthAmerica : http://semiconductor.hitachi.com/
Europe : http://www.hitachi-eu.com/hel/ecg
Asia : http://sicapac.hitachi-asia.com
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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

Electronic Components Group Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA, United Kingdom 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 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: <65>-538-6533/538-8577

Fax: <65>-538-6933/538-3877

Taipei (105), Taiwan Taipei (105), Taiwan Tel: <886-(2)-2718-3666 Fax: <886-(2)-2718-3180 Telex: 23222 HAS-TP URL: http://www.hitachi.com.tw 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

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Hitachi Asia Ltd.

16 Collyer Quay #20-00 Singapore 049318

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