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April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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# HVD369B

# Variable Capacitance Diode for VCO

REJ03G0502-0200 Rev.2.00 Jan 31, 2006

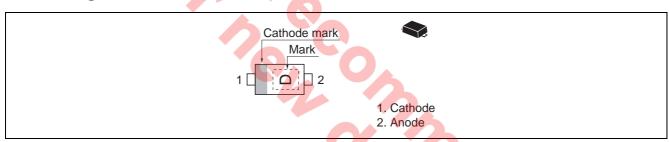
#### **Features**

- 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 Lead Package (SFP) is suitable for surface mount design.

## **Ordering Information**

Type No.	Laser Mark	Package Name	Package Code	
HVD369B	D	SFP	PUSF0002ZB-A	

## **Pin Arrangement**



Sion of

## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

#### **Electrical Characteristics**

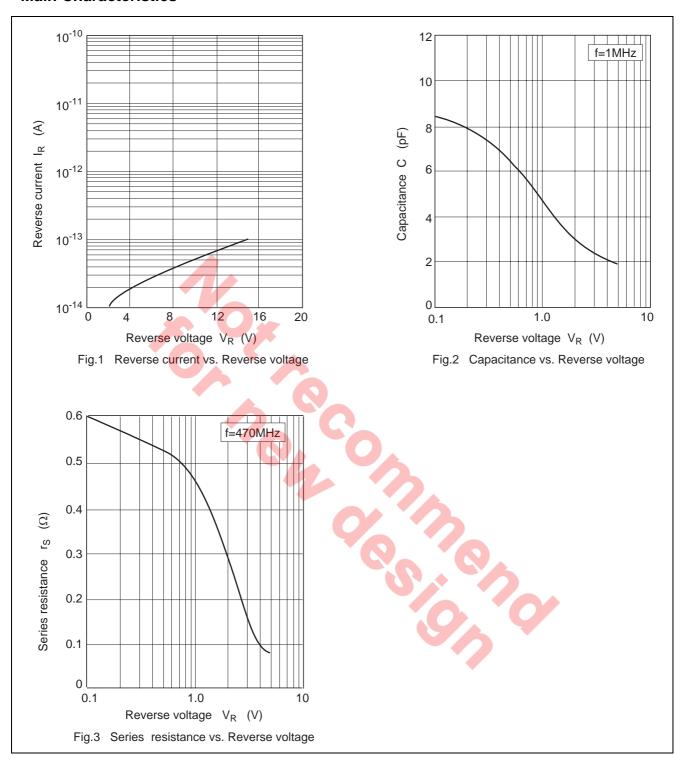
 $(Ta = 25^{\circ}C)$ 

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 /	2.30	_	_	_	C <sub>1</sub> / C <sub>4</sub>
Series resistance	r <sub>S</sub>			0.50	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

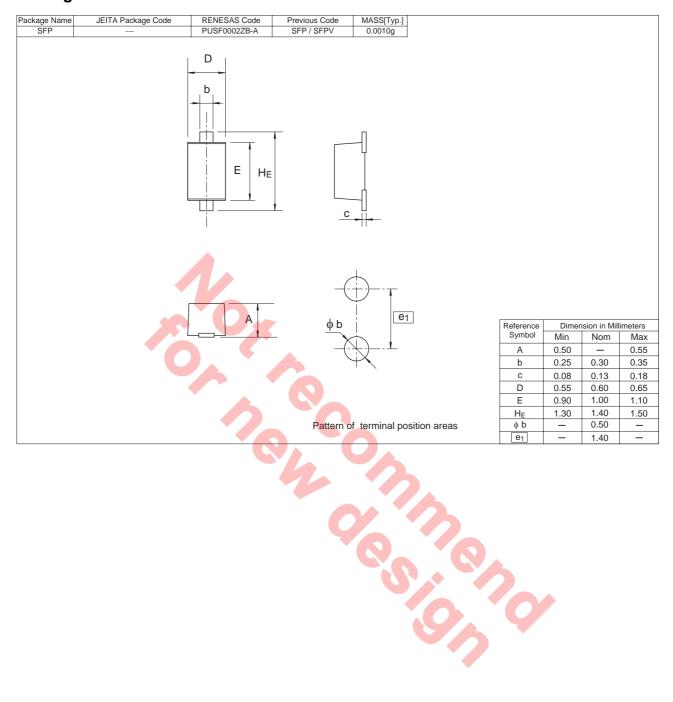
Note: For SFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.



#### **Main Characteristics**



## **Package Dimensions**



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**Renesas Technology America, Inc.** 450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

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Renesas Technology Hong Kong Ltd.
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Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510