

# HVD385B

## Variable Capacitance Diode for VCO

REJ03G0506-0300 Rev.3.00 Mar 30, 2006

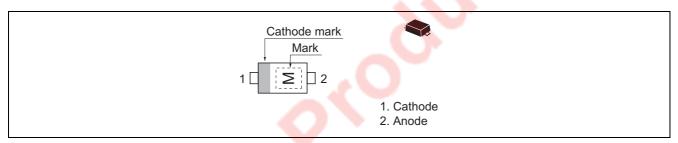
#### **Features**

- High capacitance ratio. (n = 2.43 min)
- Low series resistance. (rs =  $0.75 \Omega \text{ max}$ )
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Name	Package Code	
HVD385B	M	SFP	PUSF0002ZB-A	

## **Pin Arrangement**



## **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

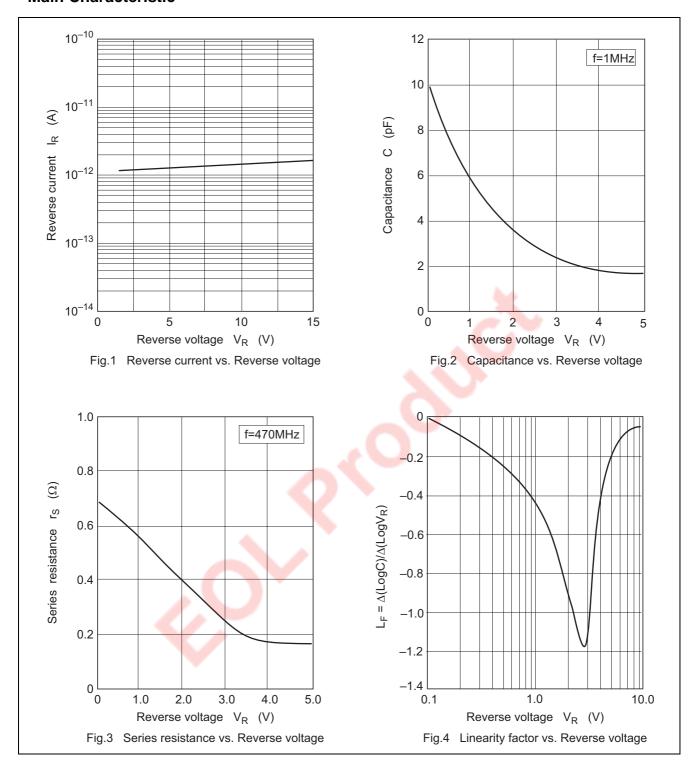
### **Electrical Characteristics**

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

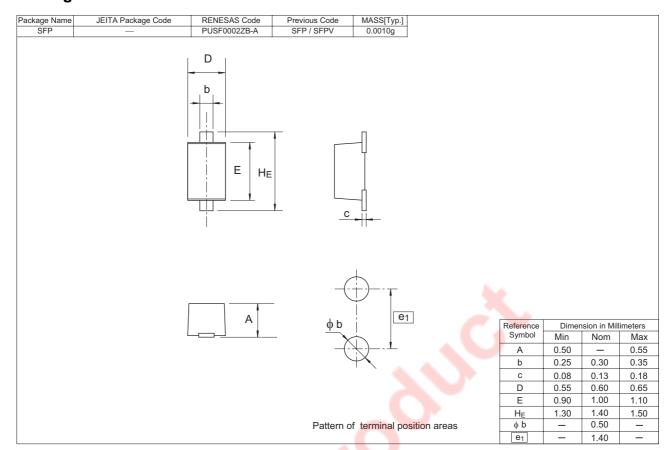
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> = 10 V
	I <sub>R2</sub>	_	_	100		V <sub>R</sub> = 10 V, Ta = 60°C
Capacitance	C <sub>0.5</sub>	7.20	_	7.70	pF	$V_R = 0.5 V, f = 1 MHz$
	C <sub>2.5</sub>	2.70	_	3.20		$V_R = 2.5 \text{ V}, f = 1 \text{ MHz}$
Capacitance ratio	n	2.43	_	2.57	_	C <sub>0.5</sub> / C <sub>2.5</sub>
Series resistance	r <sub>S</sub>			0.75	Ω	$V_R = 1 V, f = 470 MHz$

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 Characteristic**



## **Package Dimensions**



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Renesas Technology Malaysia Sdn. Bhd
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