

# HVD381B

# Variable Capacitance Diode for VCO

REJ03G0505-0200 Rev.2.00 Mar 30, 2006

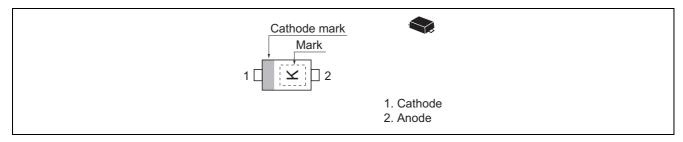
#### **Features**

- High capacitance ratio. (n = 1.65 min)
- Low series resistance. (rs =  $0.50 \Omega \text{ max}$ )
- Super Small Flat Lead Package (SFP) is suitable for surface mount design.

## **Ordering Information**

Type No.	Laser Mark	Package Name	Package Code	
HVD381B	К	SFP	PUSF0002ZB-A	

# **Pin Arrangement**



# **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

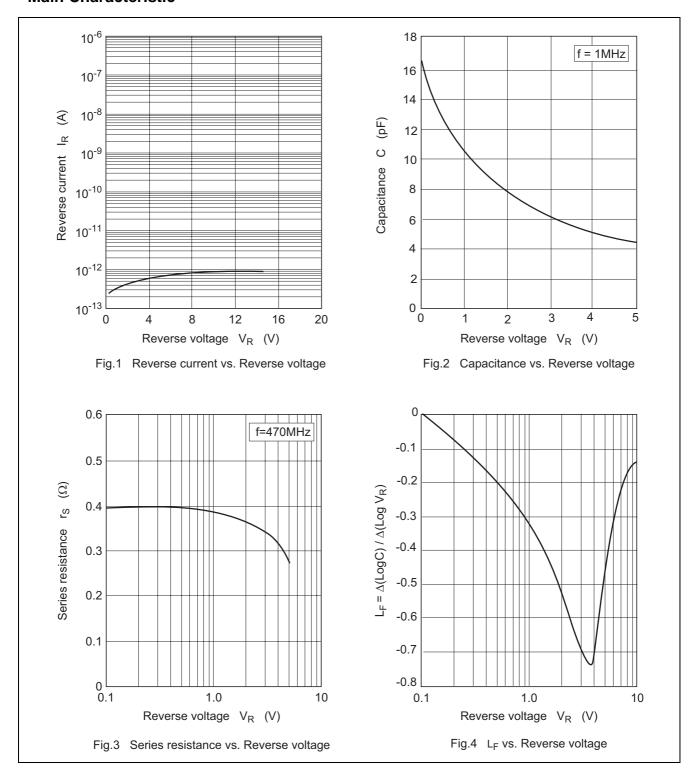
### **Electrical Characteristics**

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

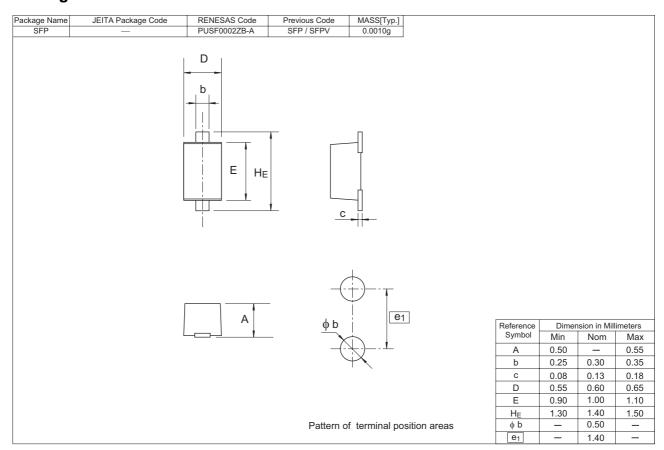
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>	_	_	100		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	10.0	_	11.0	pF	$V_R = 1 V, f = 1 MHz$
	C <sub>3</sub>	5.80	_	6.40		$V_R = 3 V, f = 1 MHz$
Capacitance ratio	n	1.65	_	_	_	C <sub>1</sub> / C <sub>3</sub>
Series resistance	r <sub>S</sub>		1	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 Characteristic**



# **Package Dimensions**



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