

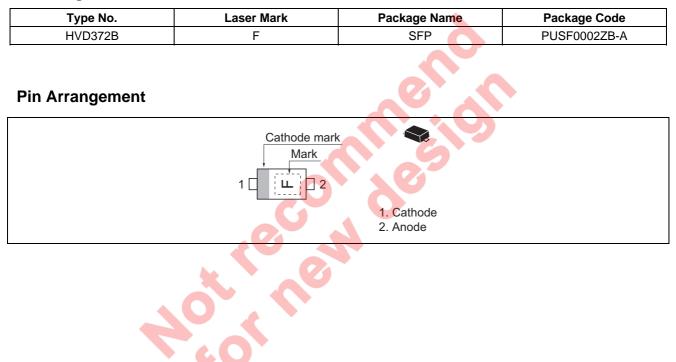
## **HVD372B** Variable Capacitance Diode for VCO

REJ03G0503-0200 Rev.2.00 Jan 31, 2006

### Features

- High capacitance ratio. (n = 2.00 min)
- Good linearity of C-V curve.
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

### **Ordering Information**





### **Absolute Maximum Ratings**

(Ta = 25°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**

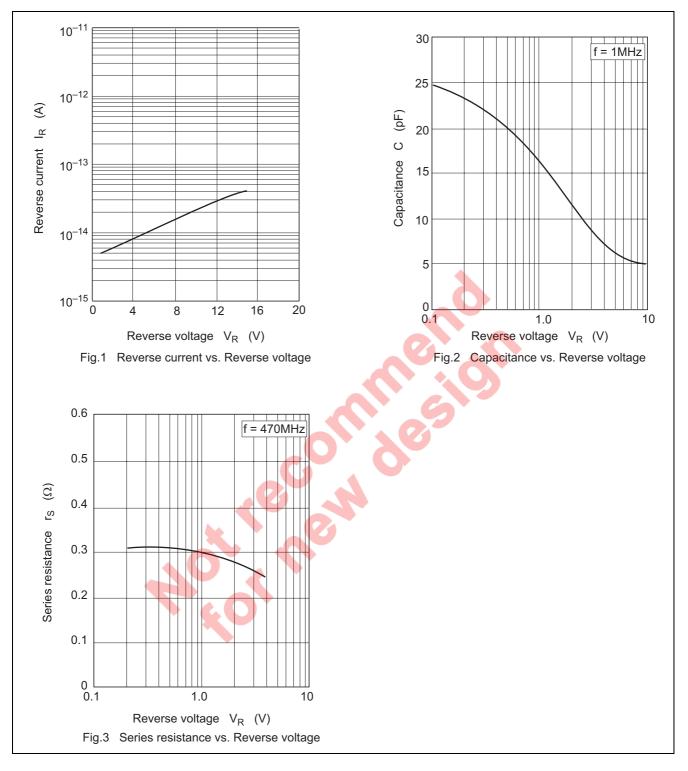
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	—	—	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>	_	—	100		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	15.0	—	17.0	pF	$V_{R} = 1 V, f = 1 MHz$
	C <sub>4</sub>	7.00	—	8.50		$V_{R} = 4 V, f = 1 MHz$
Capacitance ratio	n	2.00	_	—	— —	C <sub>1</sub> / C <sub>4</sub>
Series resistance	r <sub>s</sub>	_	_	0.40	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.

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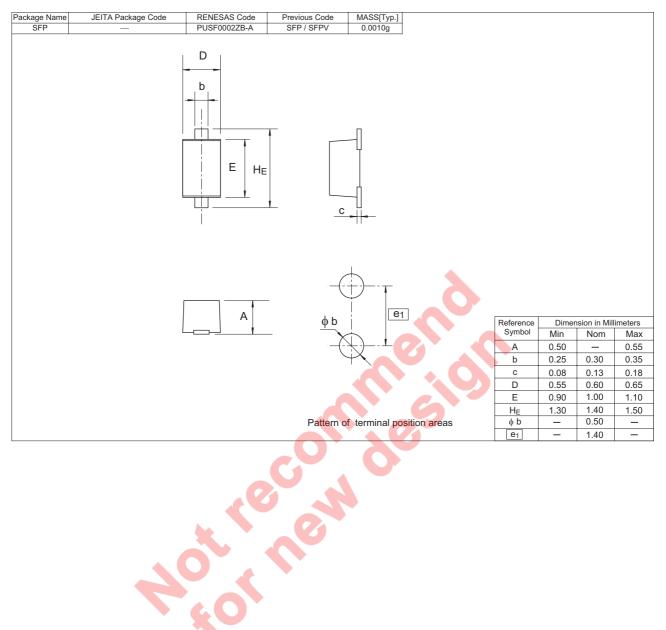
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### **Main Characteristics**





### **Package Dimensions**





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