

# HVD400C

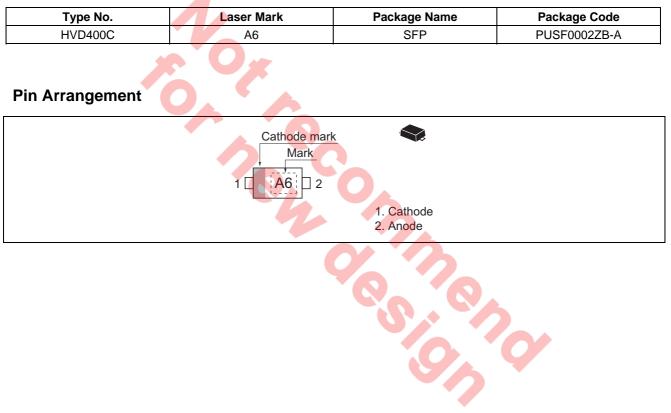
Variable Capacitance Diode for VCO

REJ03G0220-0200 Rev.2.00 Mar 30, 2006

### Features

- High capacitance ratio. (n = 1.60 min)
- Low series resistance. (rs =  $0.70 \Omega \text{ max}$ )
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

### **Ordering Information**





### **Absolute Maximum Ratings**

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

ltem	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	۵°

### **Electrical Characteristics**

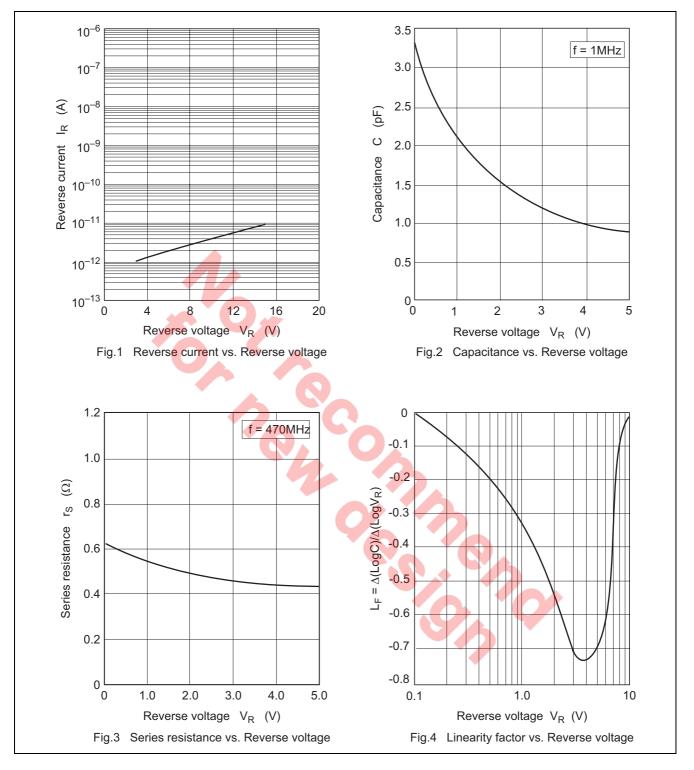
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	—	-	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>	—	-	50		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	2.05		2.24	pF	$V_{R} = 1 V, f = 1 MHz$
	C <sub>3</sub>	1.18	_	1.29		V <sub>R</sub> = 3 V, f = 1 MHz
Capacitance ratio	n	1.60	_	1.85	_	C <sub>1</sub> / C <sub>3</sub>
Series resistance	r <sub>s</sub>		_	0.70	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.

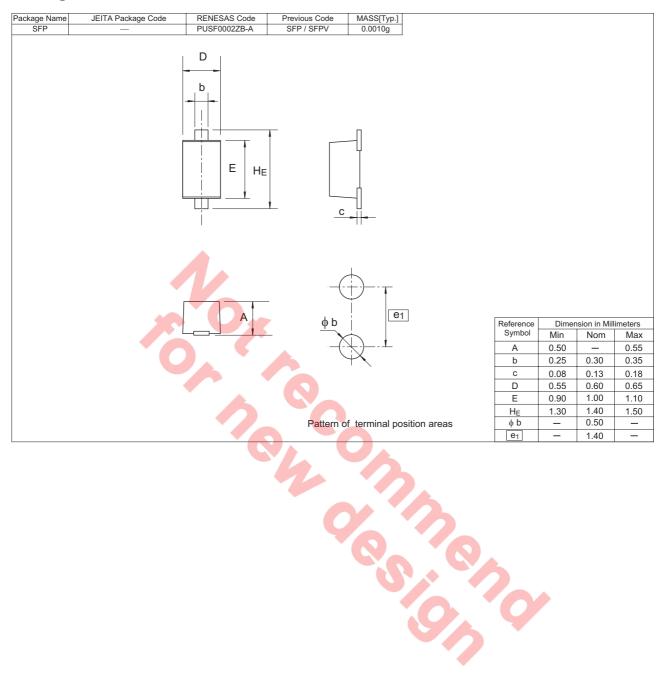




### **Main Characteristic**



### **Package Dimensions**





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