

# HVD355B

## Variable Capacitance Diode for VCO

REJ03G0498-0200 Rev.2.00 Jan 23, 2006

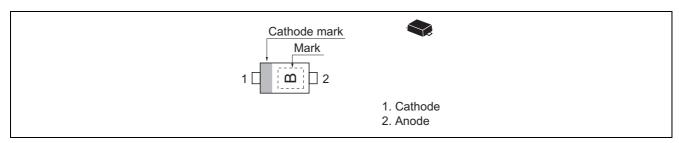
#### **Features**

- High capacitance ratio. (n = 2.20 min)
- Low series resistance. (rs =  $0.60 \Omega \text{ max}$ )
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

### **Ordering Information**

Type No. Laser Mark		Package Name	Package Code	
HVD355B	В	SFP	PUSF002ZB-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

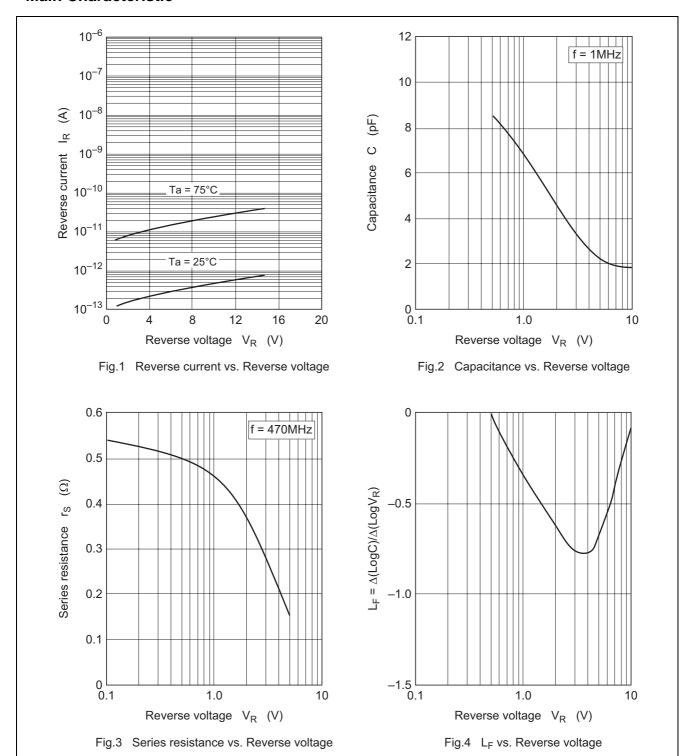
### **Electrical Characteristics**

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

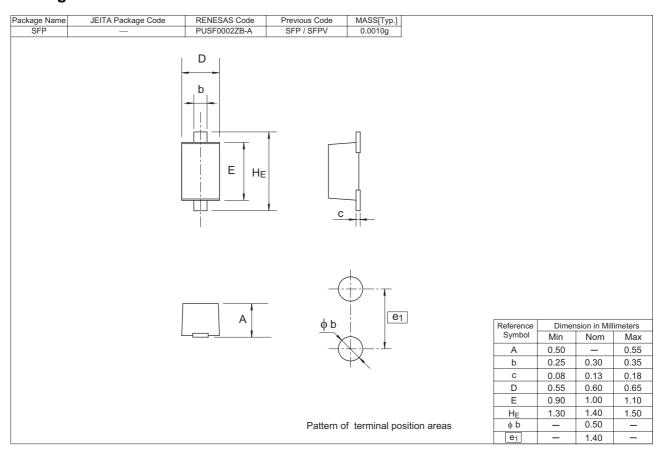
Item	Symbol	Min	Тур	Max	Unit	Test Condition	
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> = 15 V	
	I <sub>R2</sub>	_	_	100		V <sub>R</sub> = 15 V, Ta = 60°C	
Capacitance	C <sub>1</sub>	6.40	_	7.20	pF	$V_R = 1 V, f = 1 MHz$	
	C <sub>4</sub>	2.55	_	2.95		$V_R = 4 \text{ V}, f = 1 \text{ MHz}$	
Capacitance ratio	n	2.20	_	_	_	C <sub>1</sub> / C <sub>4</sub>	
Series resistance	r <sub>S</sub>			0.60	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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