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# HVL388C

# Variable Capacitance Diode for VCO

REJ03G0363-0200 Rev.2.00 Mar 15, 2006

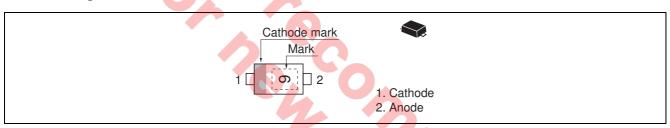
#### **Features**

- High capacitance ratio. (n = 1.880 min)
- Low series resistance. (rs =  $0.75 \Omega \text{ max}$ )
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Name	Package Code
HVL388C	9	EFP	PXSF0002ZA-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**

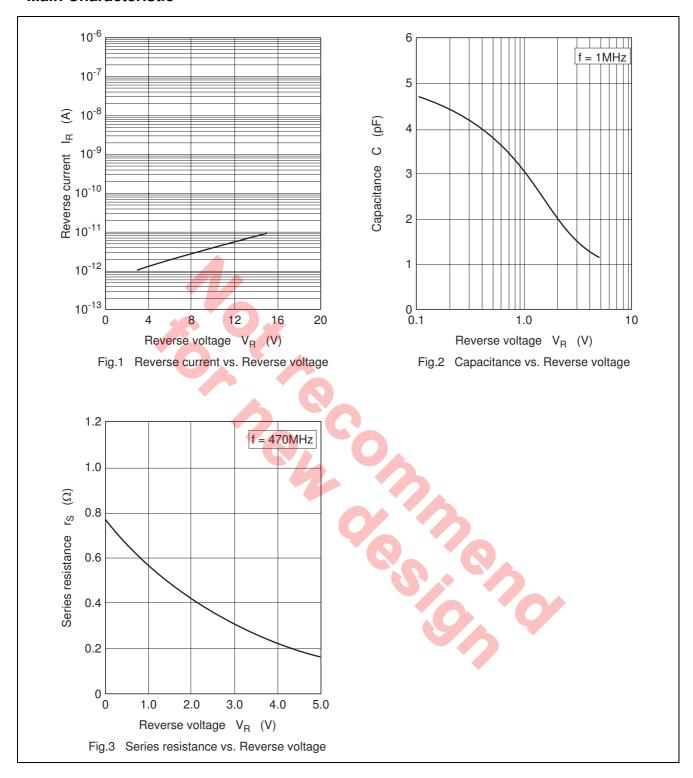
 $(Ta = 25^{\circ}C)$ 

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>	_	_	50		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	3.162	_	3.465	pF	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$
	C <sub>3</sub>	1.570	_	1.720		V <sub>R</sub> = 3 V, f = 1 MHz
Capacitance ratio	n	1.880	_	2.150	_	C <sub>1</sub> / C <sub>3</sub>
Series resistance	r <sub>S</sub>		_	0.75	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

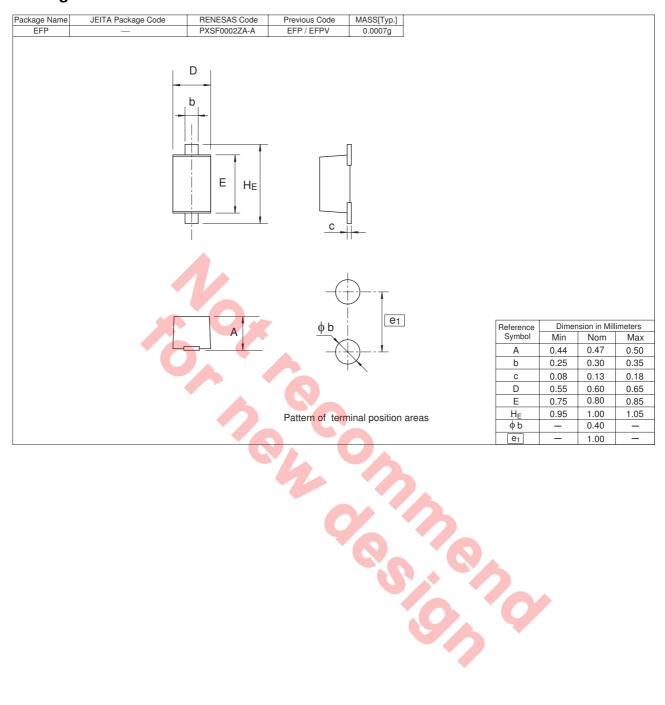
Note: For EFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.



### **Main Characteristic**



## **Package Dimensions**



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