

# HVL358C

# Variable Capacitance Diode for VCO

REJ03G0221-0200 Rev.2.00 Mar 10, 2006

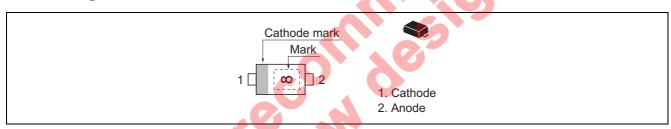
### **Features**

- High capacitance ratio. (n = 2.20 min)
- Low series resistance. (rs =  $0.40 \Omega \text{ max}$ )
- Good C-V linearity
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

## **Ordering Information**

Type No.	Laser Mark	Package Name	Package Code	
HVL358C	8	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**

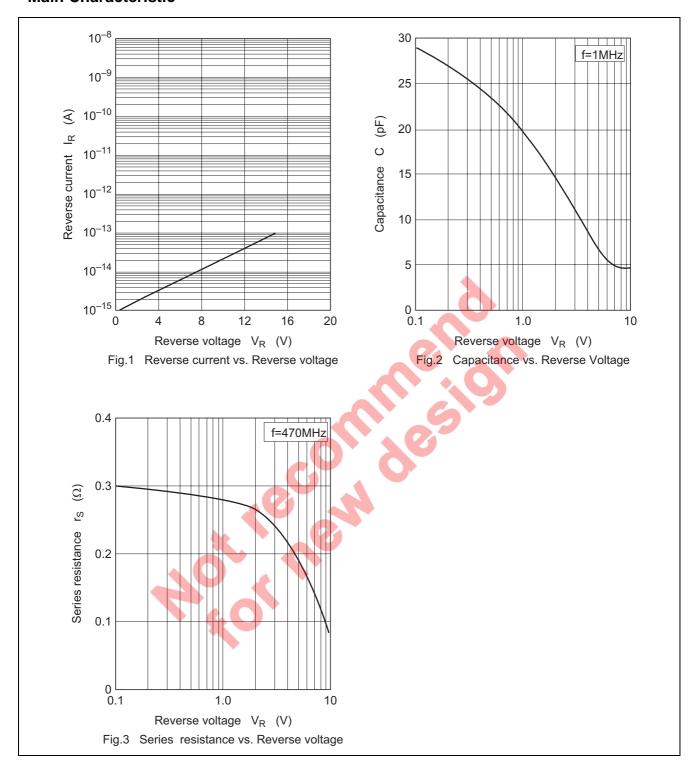
 $(Ta = 25^{\circ}C)$ 

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>	_	_	100		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	19.50	_	20.90	pF	V <sub>R</sub> = 1 V, f = 1 MHz
	C <sub>4</sub>	8.30	_	8.95		$V_R = 4 \text{ V}, f = 1 \text{ MHz}$
Capacitance ratio	n	2.20	_	2.43	_	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 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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