

# HVL400C

Variable Capacitance Diode for VCO

REJ03G0226-0100Z Rev.1.00 Apr 22, 2004

### Features

- High capacitance ratio. (n = 1.60 min)
- Low series resistance. (rs =  $0.70 \Omega$  max)
- Extremely small Flat Package (EFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Code
HVL400C	Х	EFP

### **Pin Arrangement**

	Cathode mark		
1		1. Cathode 2. Anode	



### **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	۵°C

### **Electrical Characteristics**

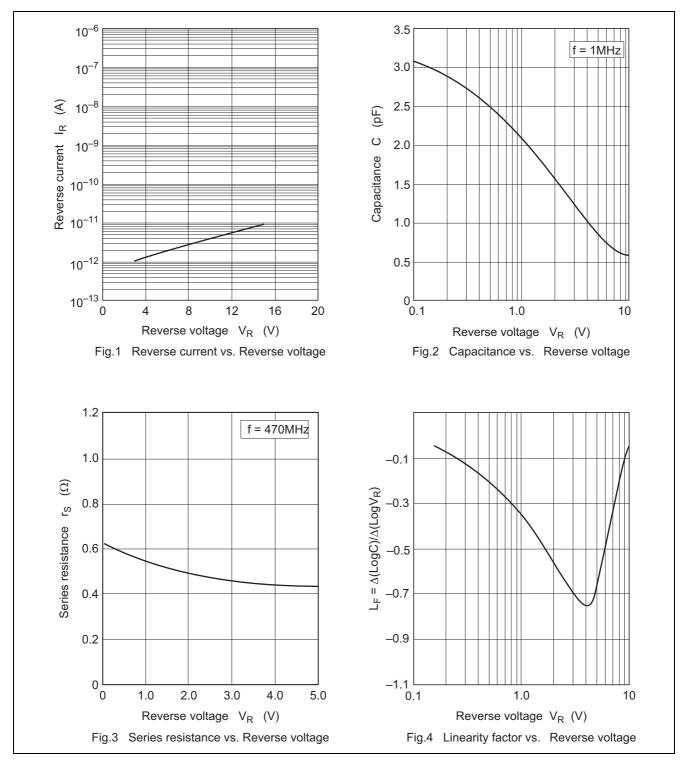
						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>		—	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>		—	50		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	<b>C</b> <sub>1</sub>	2.05	—	2.24	pF	$V_{R} = 1 V, f = 1 MHz$
	C <sub>3</sub>	1.18	—	1.29		$V_{R} = 3 V, f = 1 MHz$
Capacitance ratio	n	1.60	—	1.85	_	C <sub>1</sub> / C <sub>3</sub>
Series resistance	rs	_	_	0.70	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

Notes: 1. Please do not use the soldering iron due to avoid high stress to the EFP package.

2. 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.

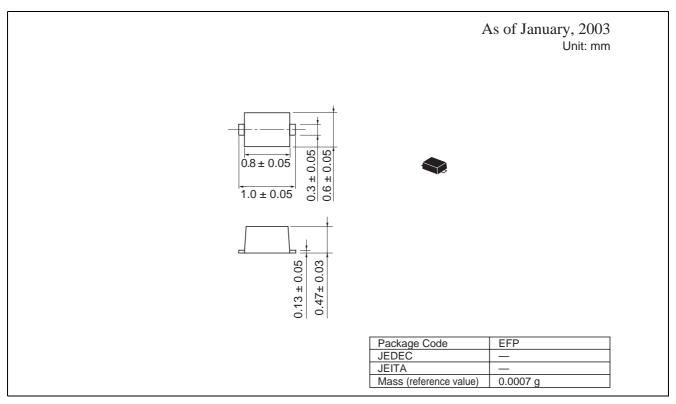


### **Main Characteristic**



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## Package Dimensions





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