

# HVL381CM

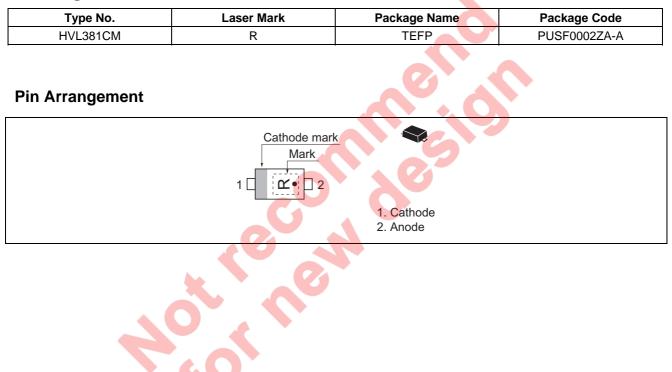
Variable Capacitance Diode for VCO

REJ03G0037-0300 Rev.3.00 Mar 14, 2006

### Features

- High capacitance ratio. (n = 1.65 min)
- Low series resistance. (rs =  $0.50 \Omega$  max)
- Thin Extremely small Flat Lead Package (TEFP) is suitable for surface mount design.

### **Ordering Information**





### **Absolute Maximum Ratings**

(Ta = 25°C)

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

### **Electrical Characteristics**

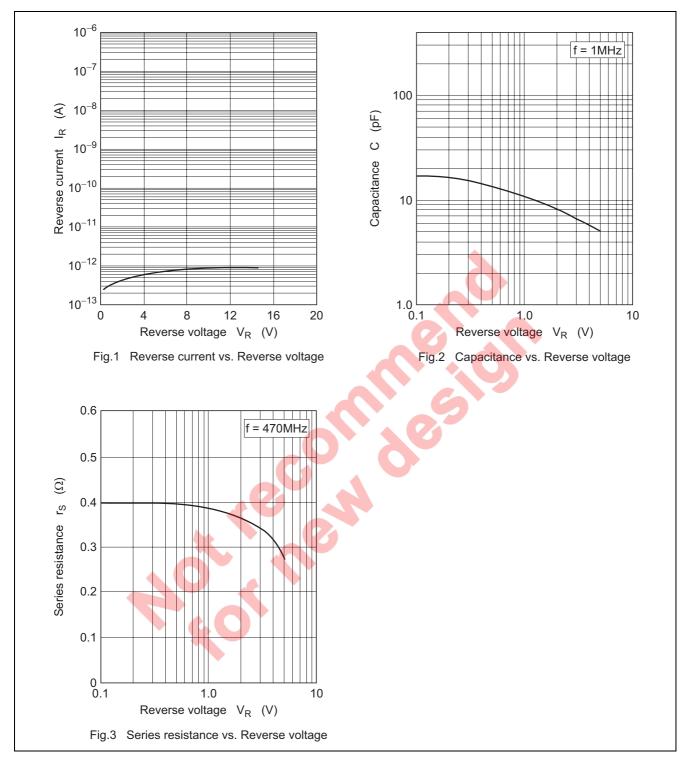
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	—	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>	_	—	100		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	10.2	—	10.8	pF	$V_{R} = 1 V, f = 1 MHz$
	C <sub>3</sub>	5.90	—	6.35		V <sub>R</sub> = 3 V, f = 1 MHz
Capacitance ratio	n	1.650	—	1.785	_ (	C <sub>1</sub> / C <sub>3</sub>
Series resistance	r <sub>s</sub>	_		0.50	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

Note: For TEFP 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.

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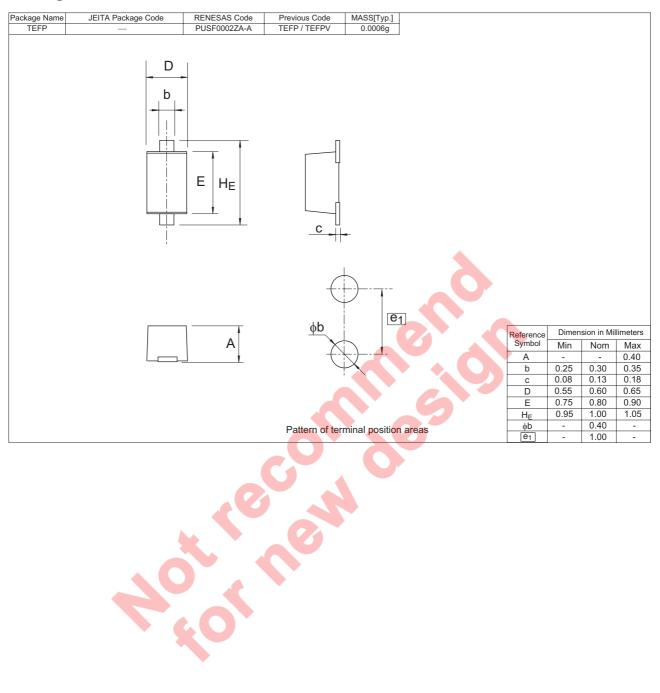


### **Main Characteristic**





### **Package Dimensions**



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