

HVL381CM

Variable Capacitance Diode for VCO

REJ03G0037-0200Z Rev.2.00 Apr 28, 2004

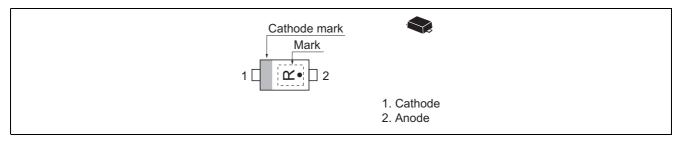
Features

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

Ordering Information

Type No.	Laser Mark	Package Code
HVL381CM	R	TEFP

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−55 to +125	°C

Electrical Characteristics

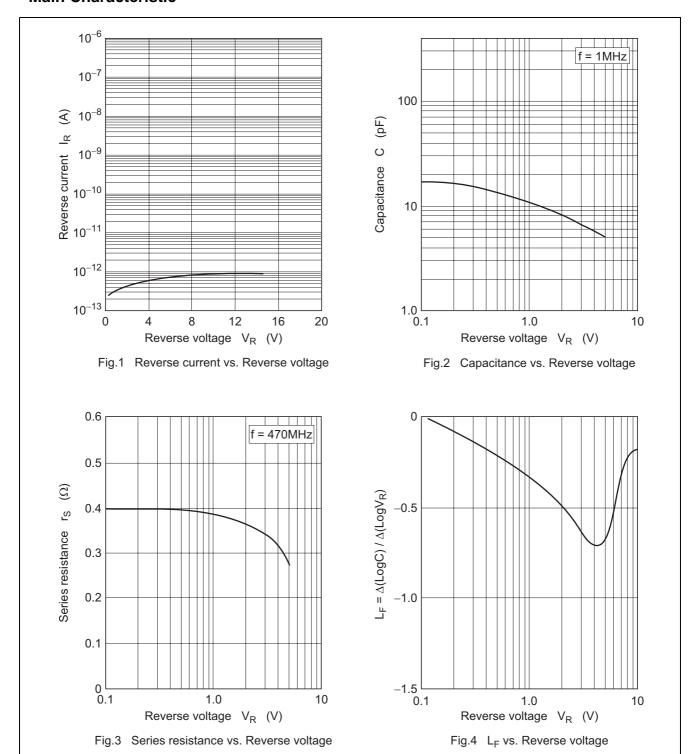
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 15 V
	I _{R2}	_	_	100		V _R = 15 V, Ta = 60°C
Capacitance	C ₁	10.2	_	10.8	pF	$V_R = 1 V, f = 1 MHz$
	C ₃	5.90	_	6.35		$V_R = 3 V, f = 1 MHz$
Capacitance ratio	n	1.650	_	1.785	_	C ₁ / C ₃
Series resistance	rs	_	_	0.50	Ω	V _R = 1 V, f = 470 MHz

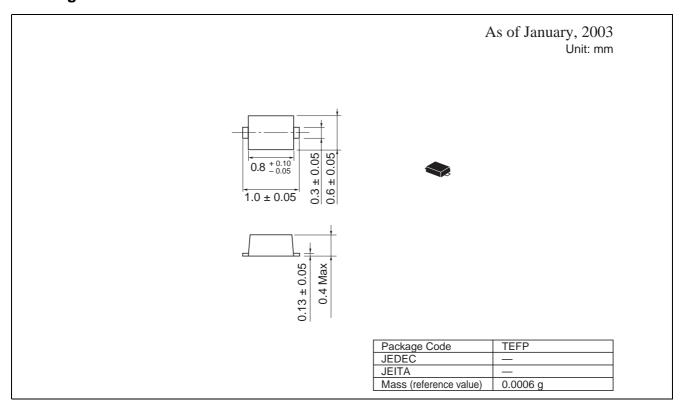
Notes: 1. Please do not use the soldering iron due to avoid high stress to the TEFP package.

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



Package Dimensions



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