HVL397C

Variable Capacitance Diode for VCO

HITACHI

ADE-208-1543 (Z)

Rev.0 Jan. 2003

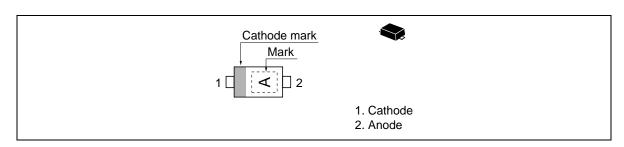
Features

- High capacitance ratio. (n = 2.9 min)
- Extremely small Flat Package (EFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVL397C	A	EFP

Pin Arrangement





HVL397C

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

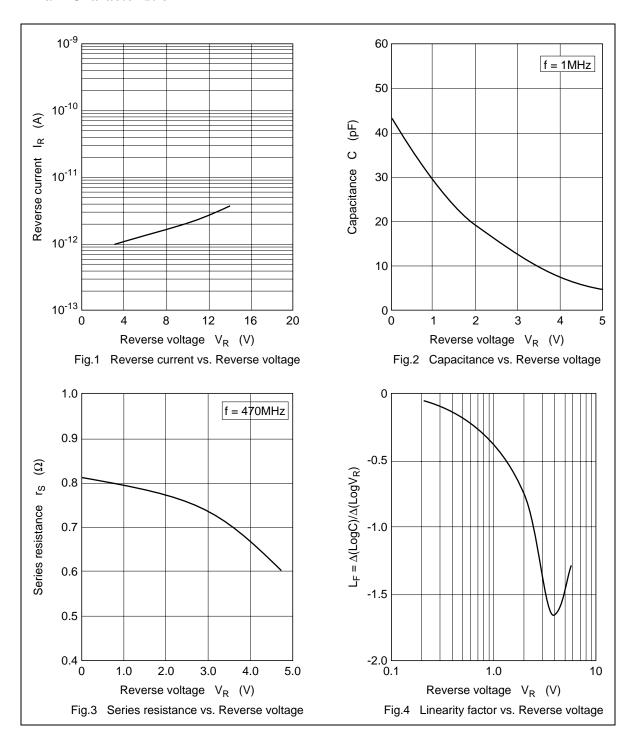
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}		_	50		V _R = 10 V, Ta = 60°C
Capacitance	C ₁	27.0	_	28.5	pF	V _R = 1 V, f = 1 MHz
	C ₂	18.0	_	20.0		V _R = 2 V, f = 1 MHz
	C ₄	6.80	_	8.50		V _R = 4 V, f = 1 MHz
Capacitance ratio	n ₁	1.3	_	_	_	C_1/C_2
	n ₂	2.9	_	_	_	C_1/C_4
Series resistance	r _s	_	_	1.2	Ω	V _R = 4 V, f = 470 MHz

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

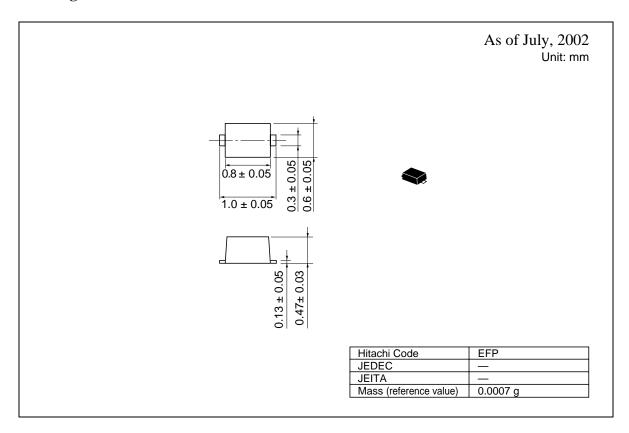
^{2.} The material of lead is exposed for cutting plane. Therefore, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Main Characteristic



HVL397C

Package Dimensions



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