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HVD388C

Variable Capacitance Diode for VCO



ADE-208-1531 (Z)

Rev.0 Jan. 2003

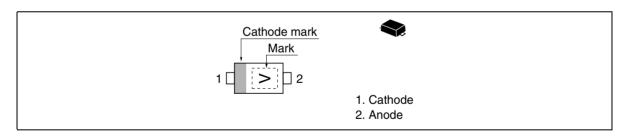
Features

- High capacitance ratio. (n = 1.70 min)
- Low series resistance. (rs = $0.75 \Omega \text{ max}$)
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD388C	V	SFP

Pin Arrangement



HVD388C

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

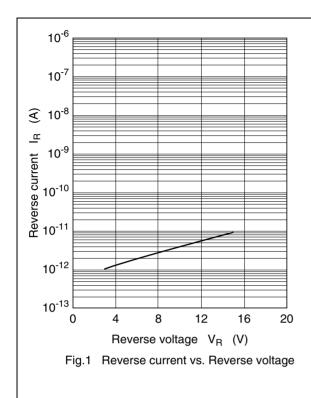
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 15 V
	I _{R2}	_		50	_	V _R = 15 V, Ta = 60°C
Capacitance	C ₁	3.00	_	3.50	pF	V _R = 1 V, f = 1 MHz
	C ₃	1.57	_	1.82	_	V _R = 3 V, f = 1 MHz
Capacitance ratio	n	1.70	_	_	_	C_1/C_3
Series resistance	r _s	_	_	0.75	Ω	V _R = 1 V, f = 470 MHz

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

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

Main Characteristic



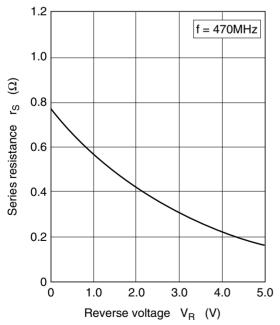


Fig.3 Series resistance vs. Reverse voltage

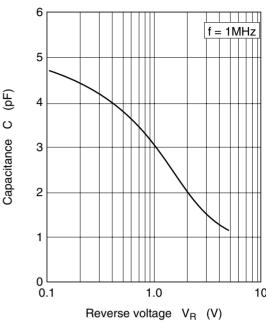
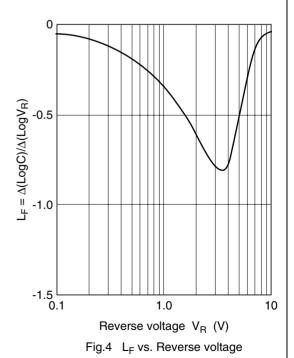
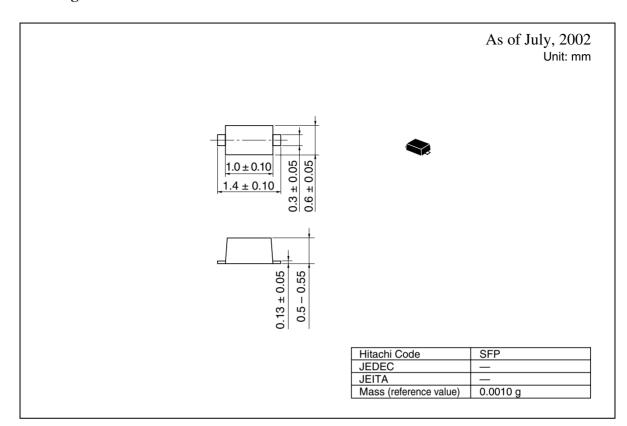


Fig.2 Capacitance vs. Reverse voltage



HVD388C

Package Dimensions



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