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HVD369B

Variable Capacitance Diode for VCO



ADE-208-850 (Z)

Rev. 0 Jun. 2000

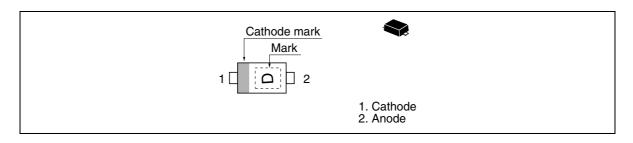
Features

- Low capacitance and to be usable at GHz.
- High capacitance ratio. (n = 2.3 min)
- Low series resistance. $(r_s = 0.5 \Omega \text{ max})$
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD369B	D	SFP

Pin Arrangement



HVD369B

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

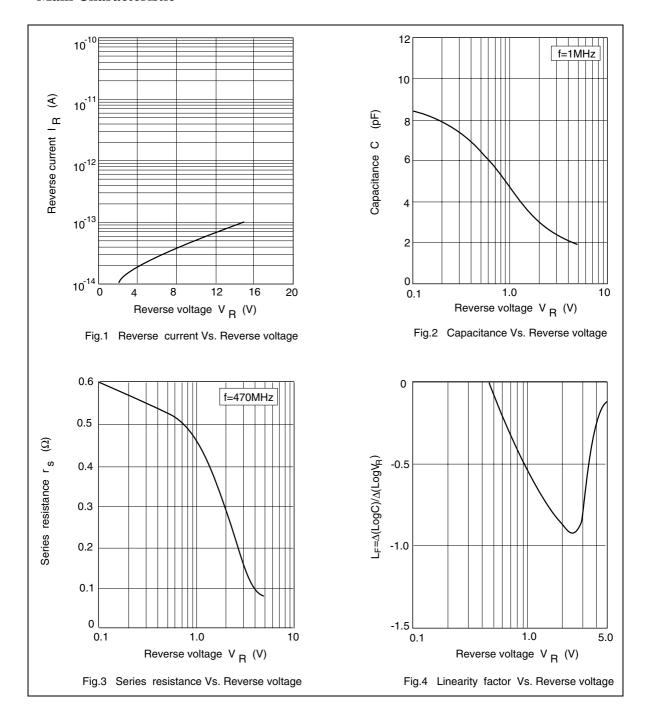
Electrical Characteristics

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

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	4.65	_	5.15	pF	V _R = 1 V, f = 1 MHz
	C ₄	1.85	_	2.15		V _R = 4 V, f = 1 MHz
Capacitance ratio	n	2.3	_	_	_	C ₁ / C ₄
Series resistance	r _s	_	_	0.5	Ω	V _R = 1 V, f = 470 MHz

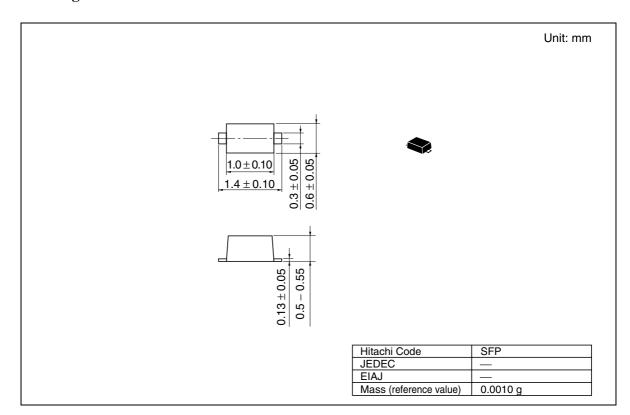
Note: Please do not use the soldering iron due to avoid high stress to the SFP package.

Main Characteristic



HVD369B

Package Dimensions



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