HVD385B

Variable Capacitance Diode for VCO

HITACHI

ADE-208-1407A (Z)

Rev. 1 Feb. 2002

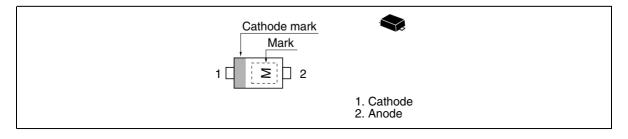
Features

- High capacitance ratio. (n = 2.43 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
HVD385B	M	SFP

Pin Arrangement





HVD385B

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

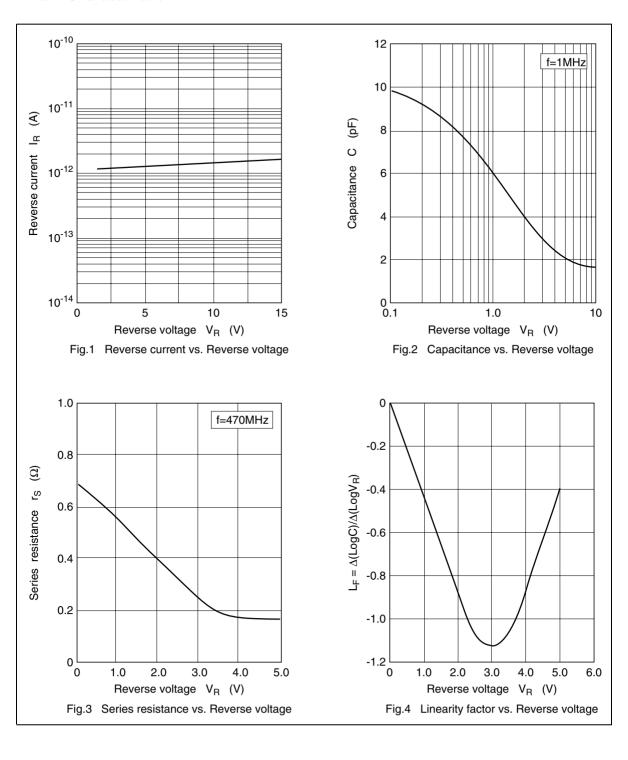
Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}	_	_	100	_	V _R = 10 V, Ta = 60°C
Capacitance	C _{0.5}	7.20	_	7.70	рF	V _R = 0.5 V, f = 1 MHz
	C _{2.5}	2.70	_	3.20	_	V _R = 2.5 V, f = 1 MHz
Capacitance ratio	n	2.43	_	2.57	_	$C_{0.5}/C_{2.5}$
Series resistance	r _s	_	_	0.75	Ω	V _R = 1 V, f = 470 MHz

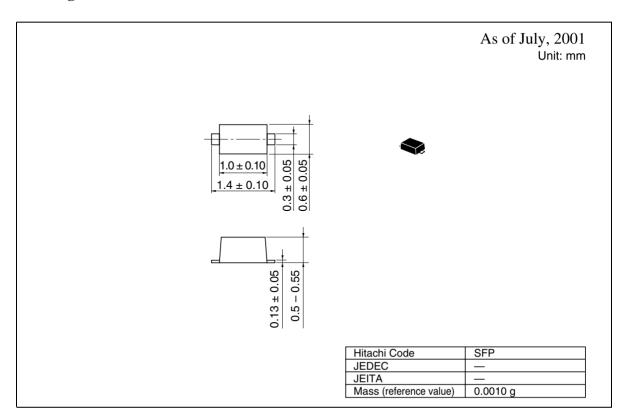
Note: Please do not use the soldering iron due to avoid high stress to the SFP package.

Main Characteristic



HVD385B

Package Dimensions



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