HVD358B

Variable Capacitance Diode for VCO

HITACHI

ADE-208-849 (Z)

Rev. 0 Jun. 2000

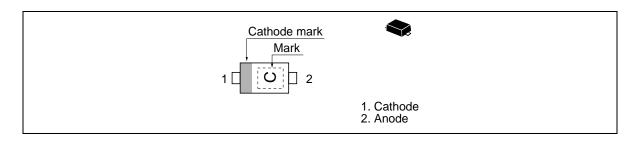
Features

- High capacitance ratio. (n = 2.20 min)
- Low series resistance. (rs = $0.4 \Omega \text{ max}$)
- Good C-V linearity.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD358B	С	SFP

Outline





HVD358B

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

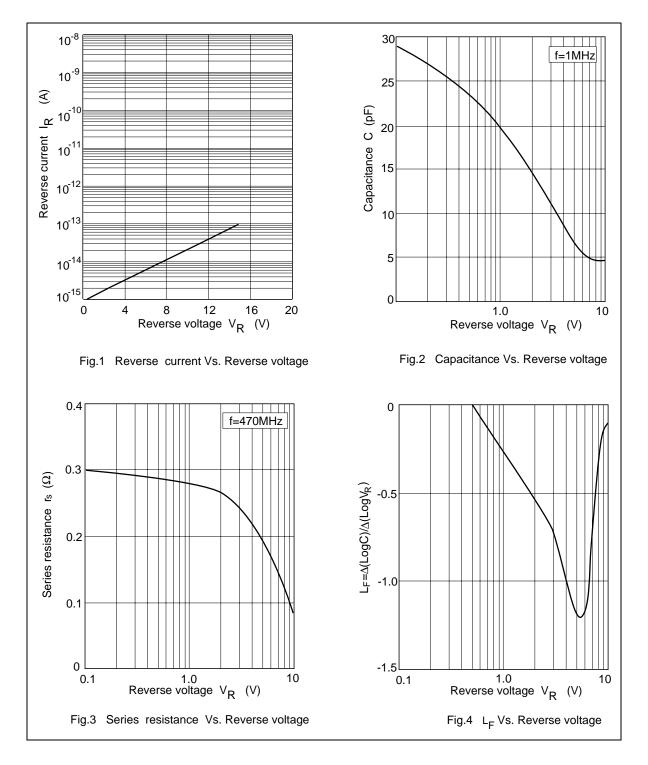
Electrical Characteristics

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

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	19.5	_	21.0	рF	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$
	C ₄	8.00	_	9.30		$V_R = 4 \text{ V}, f = 1 \text{ MHz}$
Capacitance ratio	n	2.20	_	_	_	C ₁ / C ₄
Series resistance	r _s	_	_	0.4	Ω	V _R = 1 V, f = 470 MHz

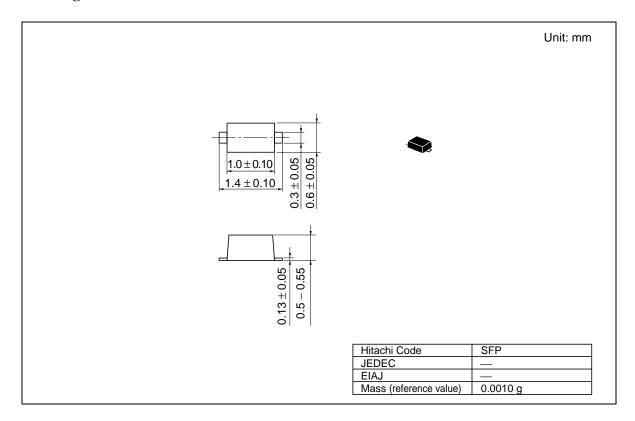
Note: Please do not use the soldering iron due to avoid high stress to the SFP package.

Main Characteristic



HVD358B

Package Dimensions



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