Variable Capacitance Diode for VCO

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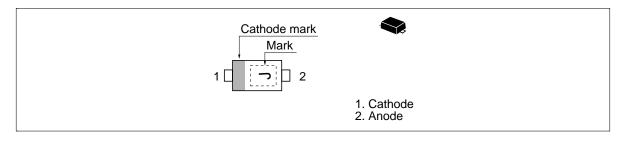
Features

- High capacitance ratio. (n = 1.70 min)
- Low series resistance. (rs = 0.80Ω max)
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVD380B	J	SFP

Outline





Absolute Maximum Ratings (Ta = 25° C)

ltem	Symbol	Value	Unit	
Reverse voltage	V _R	15	V	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

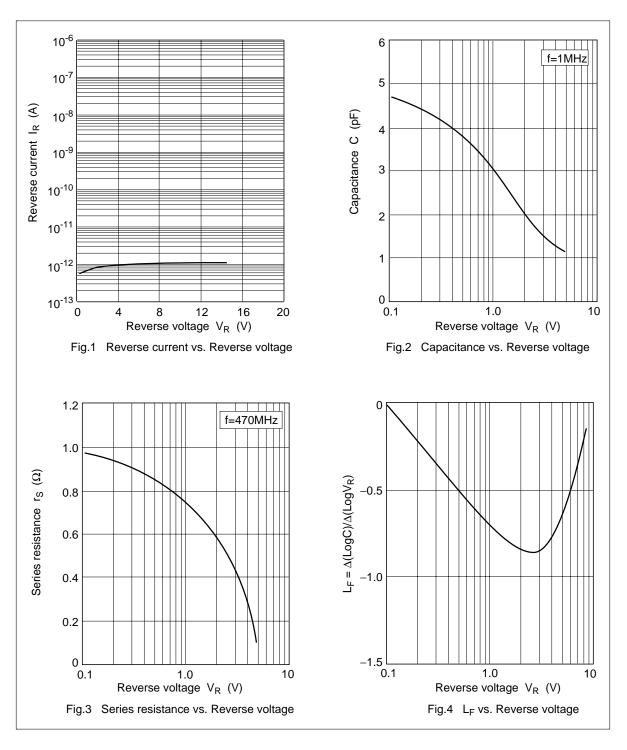
ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse current	I _{R1}	_	_	10.0	nA	V _R = 15 V
	I _{R2}	—	—	100		$V_{R} = 15 \text{ V}, \text{ Ta} = 60^{\circ}\text{C}$
Capacitance	C ₁	2.880	_	3.120	pF	$V_{R} = 1 V, f = 1 MHz$
	C ₃	1.660	_	1.795	_	$V_{R} = 3 V, f = 1 MHz$
	C ₄	1.360	_	1.471	_	$V_R = 4 V, f = 1 MHz$
Capacitance ratio	n,	1.70	_	1.84		C_1 / C_3
	n ₂	2.08		2.25	_	C ₁ / C ₄
Series resistance	r _s	_	_	0.80	Ω	V _R = 1 V, f = 470 MHz

Electrical Characteristics (Ta = 25°C)

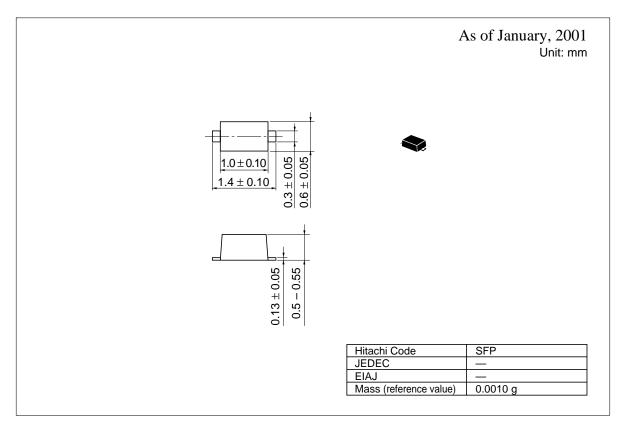
Note: Please do not use the soldering iron due to avoid high stress to the SFP package.

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Main Characteristic



Package Dimensions



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