Variable Capacitance Diode for VCO



ADE-208-848 (Z)

Rev. 0 Jun. 2000

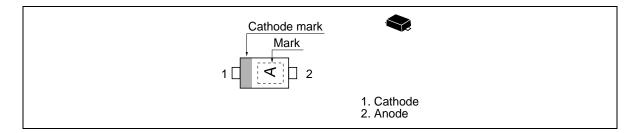
Features

- High capacitance ratio. (n = 2.8.min)
- Low series resistance. (rs = 0.5Ω max)
- Good C-V linearity.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVD350B	A	SFP

Outline





Absolute Maximum Ratings

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

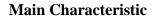
ltem	Symbol	Value	Unit	
Reverse voltage	V _R	15	V	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

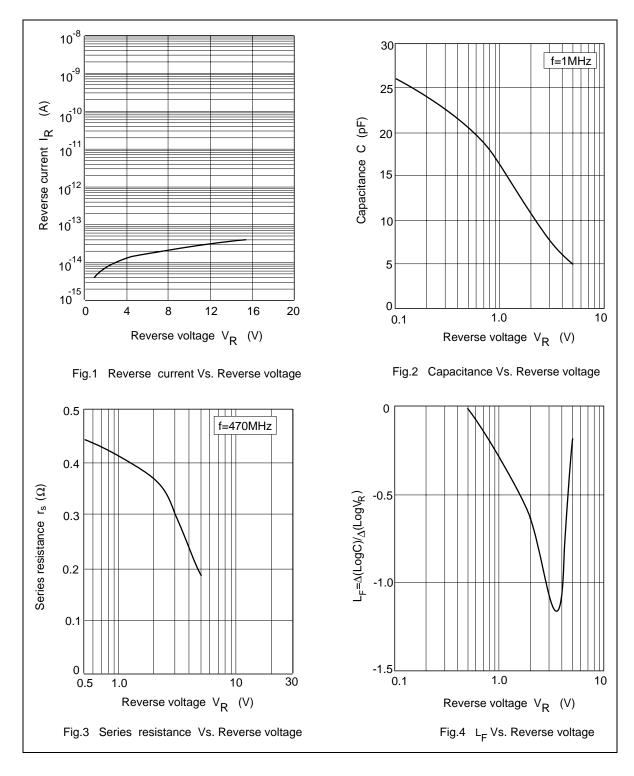
Electrical Characteristics

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

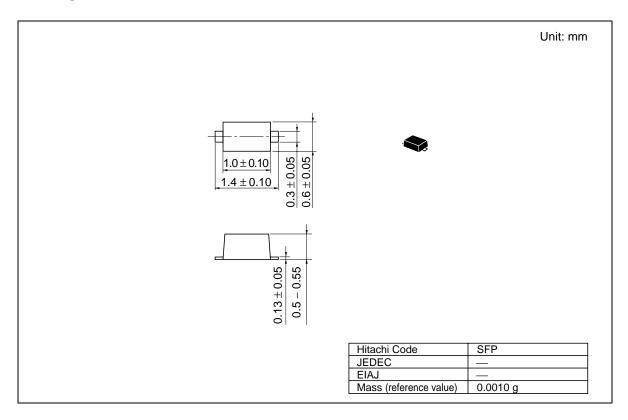
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}			10	nA	$V_{R} = 15V$
	I _{R2}			100		V _R = 15V, Ta = 60°C
Capacitance	C ₁	15.5	_	17.0	pF	$V_{R} = 1V$, f = 1 MHz
	C ₄	5.0	_	6.0		$V_{R} = 4V$, f = 1 MHz
Capacitance ratio	n	2.8	_	_		C ₁ / C ₄
Series resistance	r _s			0.5	Ω	V _R = 1V, f = 470 MHz

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





Package Dimensions



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