HVD359

Variable Capacitance Diode for VCXO

HITACHI

ADE-208-955 (Z)

Rev. 0 Jul. 2000

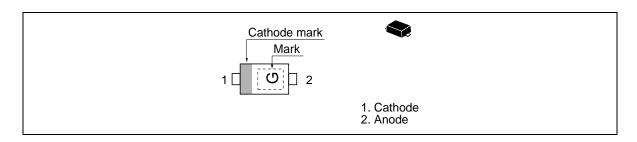
Features

- High capacitance ratio and good C-V linearity.
- To be usable at low voltage.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD359	G	SFP

Outline





HVD359

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

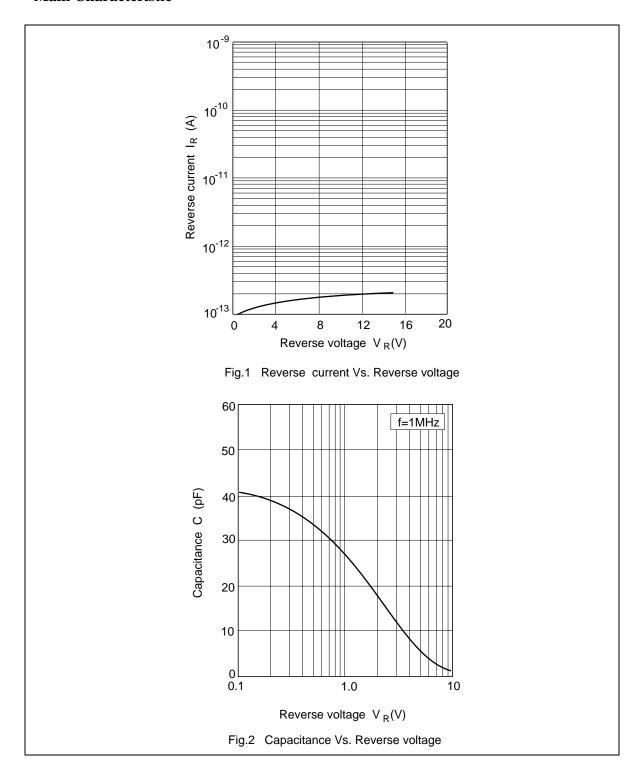
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}	_	_	100		$V_R = 10 \text{ V}, \text{ Ta} = 60^{\circ}\text{C}$
Capacitance	C ₁	24.8	_	29.8	pF	V _R = 1 V, f = 1 MHz
	C ₄	6.0	_	8.3		V _R = 4 V, f = 1 MHz
Capacitance ratio	n	3.0	_	_	_	C ₁ /C ₄
Series resistance	r _s	_	_	1.5	Ω	V _R = 4 V, f = 100 MHz
ESD-Capability *1	_	80	_	_	V	C = 200 pF, R = 0 Ω , Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion; $I_R \ge 20 \text{ nA}$ at $V_R = 10 \text{ V}$

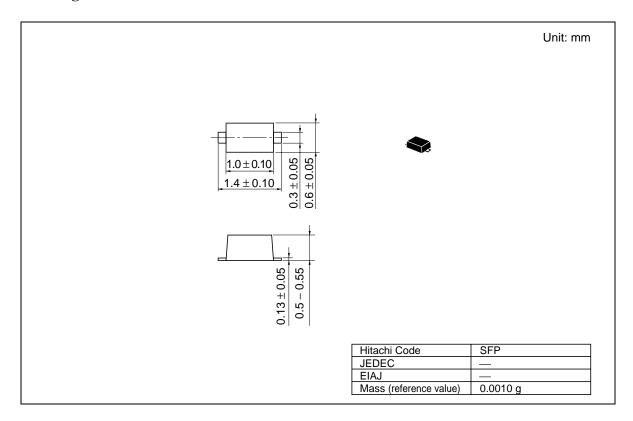
2. Please do not use the soldering iron due to avoid high stress to the SFP package.

Main Characteristic



HVD359

Package Dimensions



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