

HVD362 Variable Capacitance Diode for VCO

REJ03G0056-0200 Rev.2.00 Jan 24, 2006

Features

- High capacitance ratio. (n = 3.0 min)
- Good C-V linearity.
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code	
HVD362	A2	SFP	PUSF002ZB-A	
Pin Arrangement		C.		
	Cathode mark Mark 1 (A2) 2			
		1. Cathode 2. Anode		



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V _R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	۵°

Electrical Characteristics

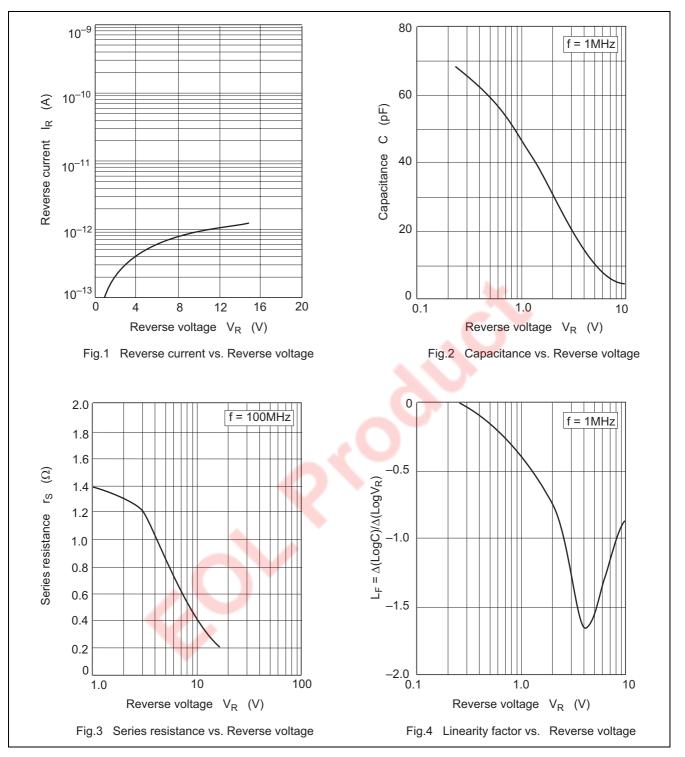
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}	_	_	100		$V_{R} = 10 V, Ta = 60^{\circ}C$
Capacitance	C ₁	41.6	_	49.9	pF	$V_{R} = 1 V, f = 1 MHz$
	C ₄	10.1	_	14.8		$V_R = 4 V, f = 1 MHz$
Capacitance ratio	n	3.0	_	—	—	C ₁ / C ₄
Series resistance	r _S	_	_	2.0	Ω	V _R = 4 V, f = 100 MHz
ESD-Capability *1	—	80	_	_	V	C = 200pF,Both forward and
						reverse direction 1 pulse.

Notes: 1. Failure criterion ; $I_R \geq 20nA$ at V_R = 10 V

2. For SFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

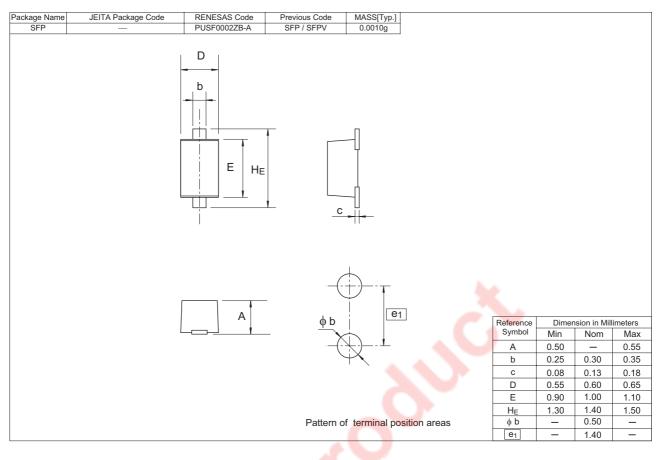


Main Characteristic





Package Dimensions





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