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HVD362

Variable Capacitance Diode for VCO

REJ03G0056-0100Z Rev.1.00 Apr 16, 2004

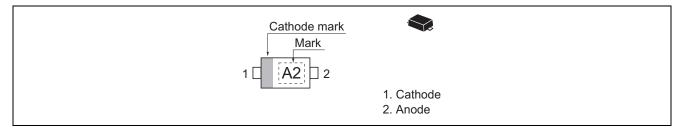
Features

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

Ordering Information

Туре No.	Laser Mark	Package Code
HVD362	A2	SFP

Pin Arrangement





Absolute Maximum Ratings

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

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

Electrical Characteristics

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

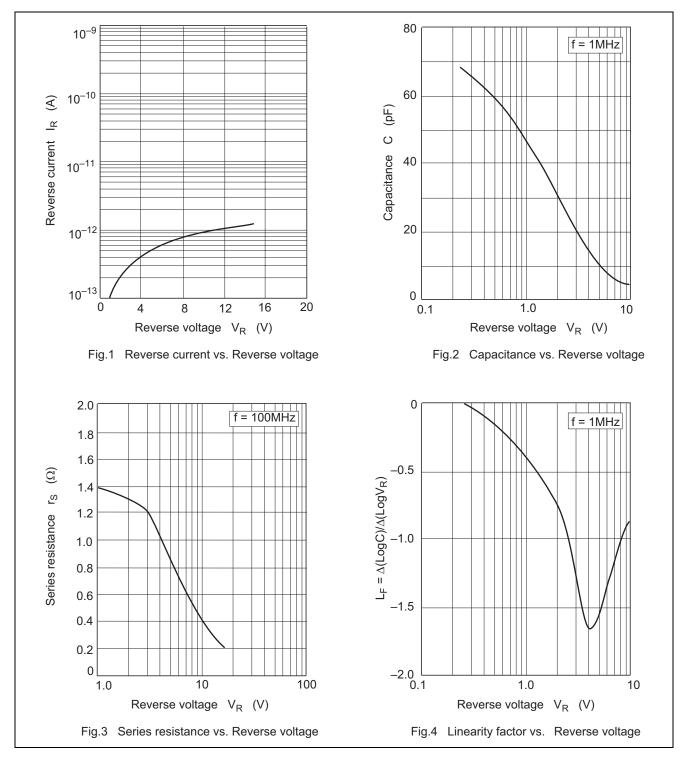
Notes: 1. Failure criterion ; $I_R \ge 20nA$ at $V_R = 10 V$

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

3. The material of lead is exposed for cutting plane. Therefore, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

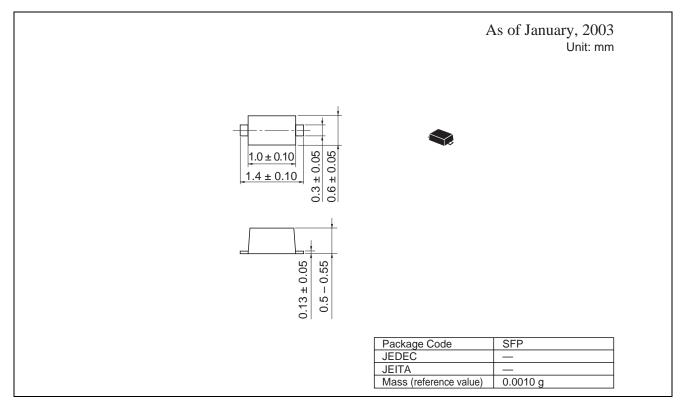


Main Characteristic



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Package Dimensions





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