

# 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 <sub>R</sub>	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	۵°

## **Electrical Characteristics**

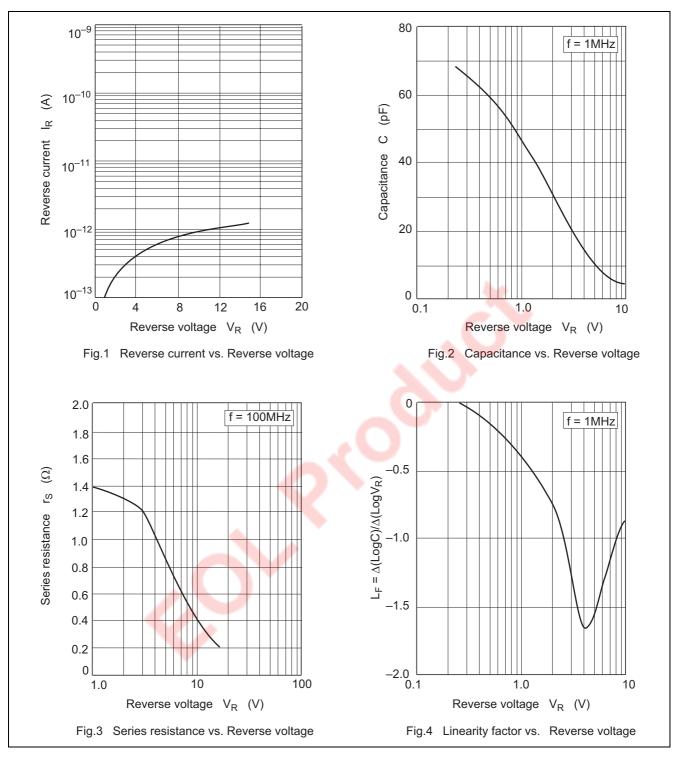
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> = 10 V
	I <sub>R2</sub>	_	_	100		$V_{R} = 10 V, Ta = 60^{\circ}C$
Capacitance	C <sub>1</sub>	41.6	_	49.9	pF	$V_{R} = 1 V, f = 1 MHz$
	C <sub>4</sub>	10.1	_	14.8		$V_R = 4 V, f = 1 MHz$
Capacitance ratio	n	3.0	_	—	—	C <sub>1</sub> / C <sub>4</sub>
Series resistance	r <sub>S</sub>	_	_	2.0	Ω	V <sub>R</sub> = 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.

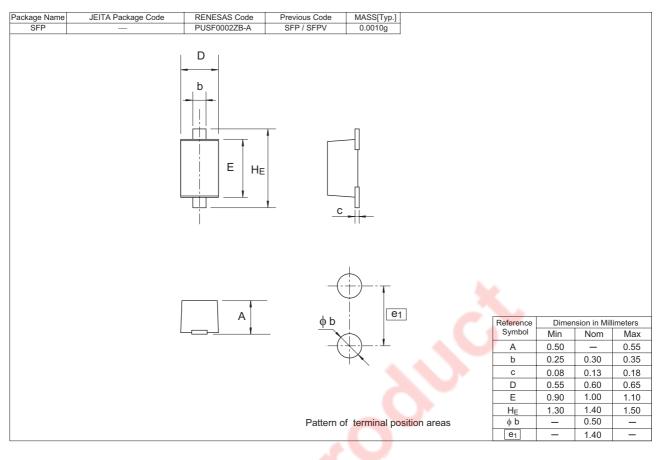


## **Main Characteristic**





## **Package Dimensions**





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