Old Company Name in Catalogs and Other Documents

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April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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HVD350B

Variable Capacitance Diode for VCO

REJ03G0497-0200 Rev.2.00 Jan 20, 2006

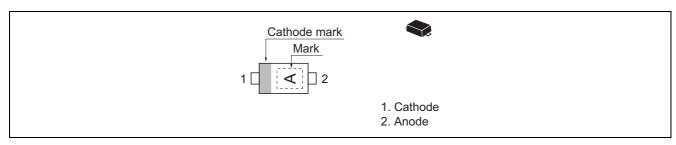
Features

- High capacitance ratio. (n = 2.80 min)
- Low series resistance. (rs = $0.50 \Omega \text{ max}$)
- 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	
HVD350B	Α	SFP	PUSF0002ZB-A	

Pin Arrangement



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

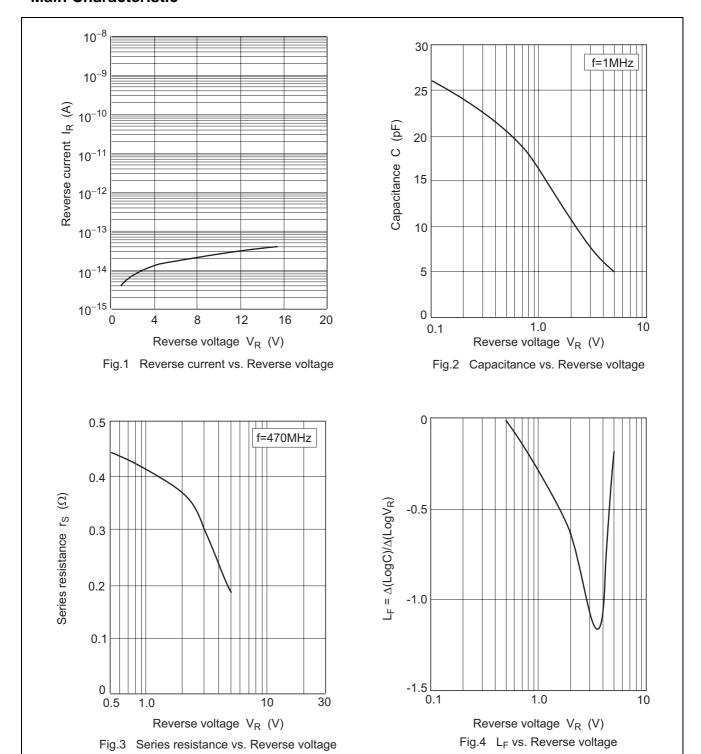
Electrical Characteristics

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

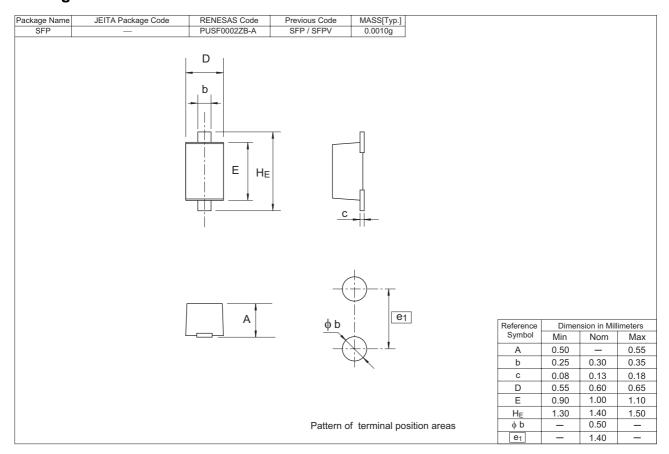
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 15 V
	I _{R2}	_	_	100		V _R = 15 V, Ta = 60°C
Capacitance	C ₁	15.50	_	17.00	pF	V _R = 1 V, f = 1 MHz
	C ₄	5.00	_	6.00		$V_R = 4 \text{ V}, f = 1 \text{ MHz}$
Capacitance ratio	n	2.80	_	_	_	C ₁ / C ₄
Series resistance	r _S	_	_	0.50	Ω	V _R = 1 V, f = 470 MHz

Note: 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



Renesas Technology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

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