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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HVC355B

Variable Capacitance Diode for VCO

REJ03G0084-0100Z

(Previous: ADE-208-416)

Rev.1.00 Sep.17.2003

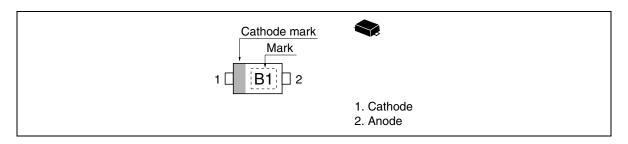
Features

- High capacitance ratio. (n = 2.20 min)
- Low series resistance. (rs = $0.6 \Omega \text{ max}$)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC355B	B1	UFP

Pin Arrangement



Absolute Maximum Ratings

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

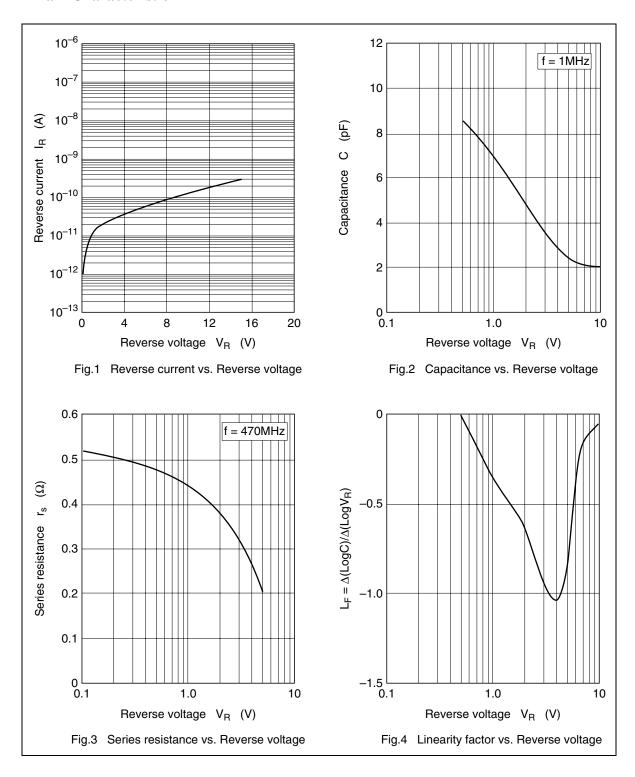
Item	Symbol	Value	Unit	
Reverse voltage	V_R	15	V	
Junction temperature	Tj	125	°C	
Storage temperature Tstg		−55 to +125	°C	

Electrical Characteristics

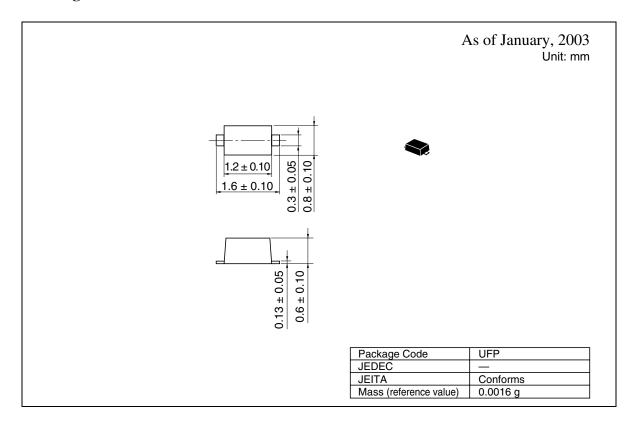
 $(Ta = 25^{\circ}C)$

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	6.40	_	7.20	рF	V _R = 1 V, f = 1 MHz
	C ₄	2.55	_	2.95		V _R = 4 V, f = 1 MHz
Capacitance ratio	n	2.20	_	_	_	C ₁ /C ₄
Series resistance	r _s			0.6	Ω	V _R = 1 V, f = 470 MHz

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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