

HVC385B

Variable Capacitance Diode for VCO

REJ03G0495-0200

(Previous: ADE-208-1403A)

Rev.2.00 Jan 19, 2005

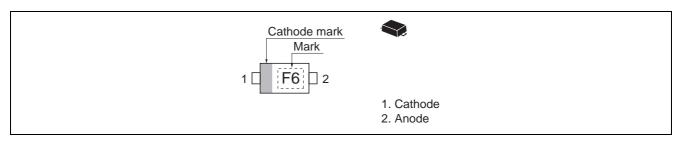
Features

- High capacitance ratio. (n = 2.43 min)
- Low series resistance. (rs = $0.75 \Omega \text{ max}$)
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code	
HVC385B	F6	UFP	

Pin Arrangement



Absolute Maximum Ratings

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

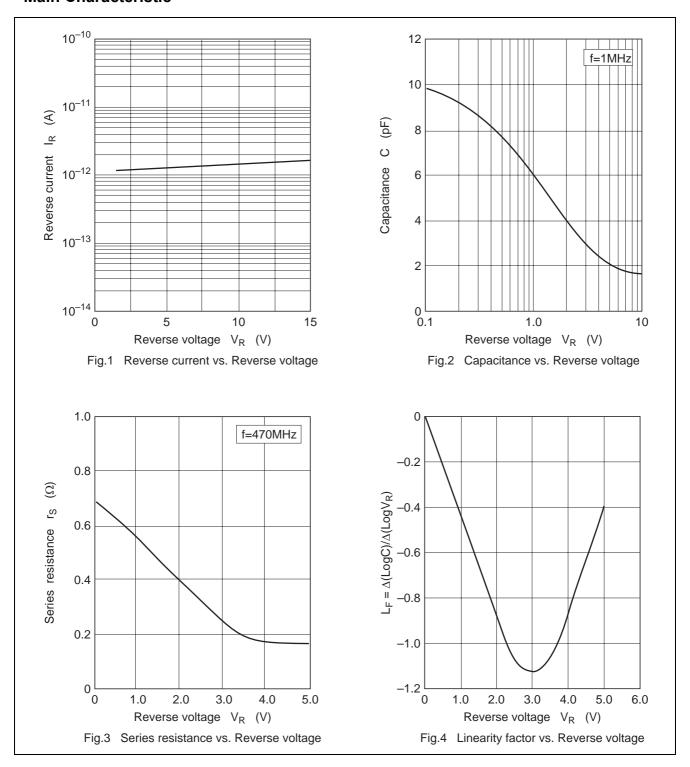
Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

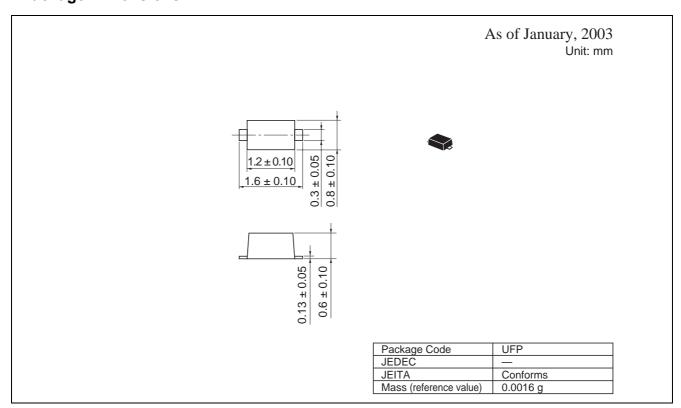
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}	_	_	100		V _R = 10 V, Ta = 60°C
Capacitance	C _{0.5}	7.20	_	7.70	pF	V _R = 0.5 V, f = 1 MHz
	C _{2.5}	2.70	_	3.20		V _R = 2.5 V, f = 1 MHz
Capacitance ratio	n	2.43	_	2.57	_	C _{0.5} / C _{2.5}
Series resistance	rs	_	_	0.75	Ω	V _R = 1 V, f = 470 MHz

Main Characteristic



Package Dimensions



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April 1st, 2010 Renesas Electronics Corporation

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