RENESAS

HVC355B

Variable Capacitance Diode for VCO

REJ03G0084-0100Z (Previous: ADE-208-416) Rev.1.00 Sep.17.2003

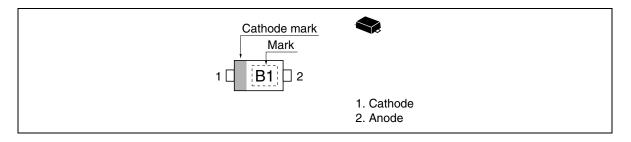
Features

- High capacitance ratio. (n = 2.20 min)
- Low series resistance. (rs = 0.6Ω 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

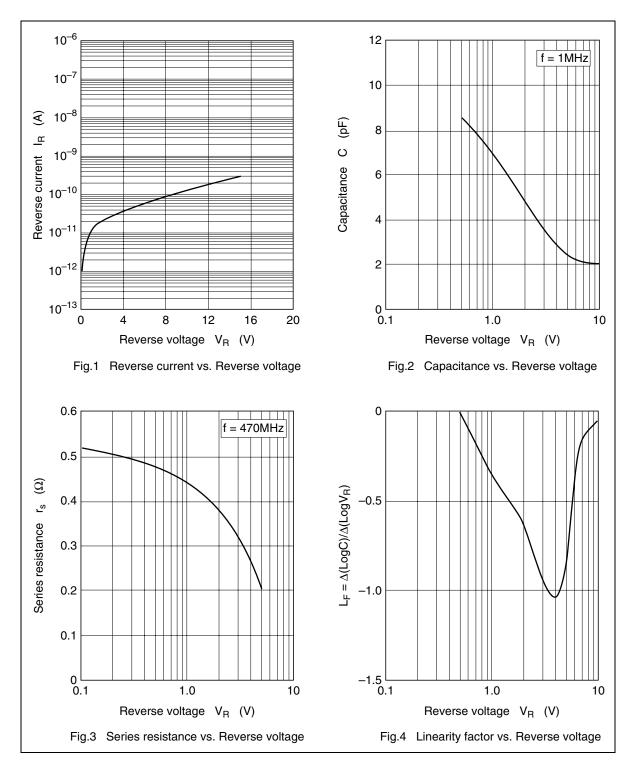
Electrical Characteristics

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

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	pF	$V_{R} = 1 V, f = 1 MHz$
	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



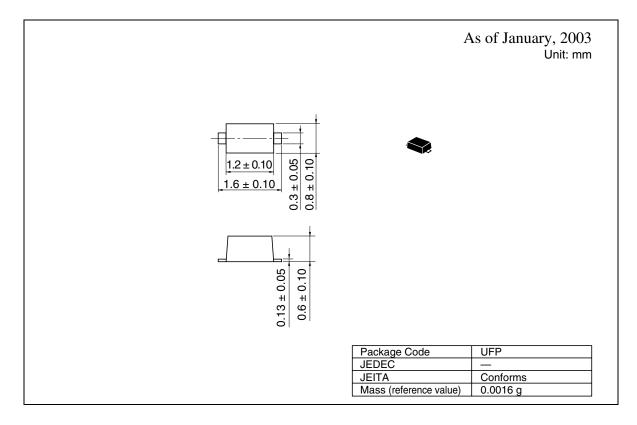
Main Characteristic





HVC355B

Package Dimensions





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