RENESAS

HVC368B

Variable Capacitance Diode for VCO

REJ03G0065-0100Z (Previous: ADE-208-775) Rev.1.00 Jul.24.2003

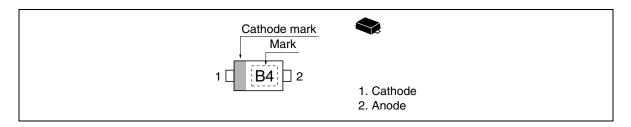
Features

- Narrow terminal Capacitance deviation.
- Low series resistance. ($r_s = 1.1 \Omega max$)
- Good C-V linearity.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code	
HVC368B	B4	UFP	

Pin Arrangement





Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Reverse voltage	V _R	10	V	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

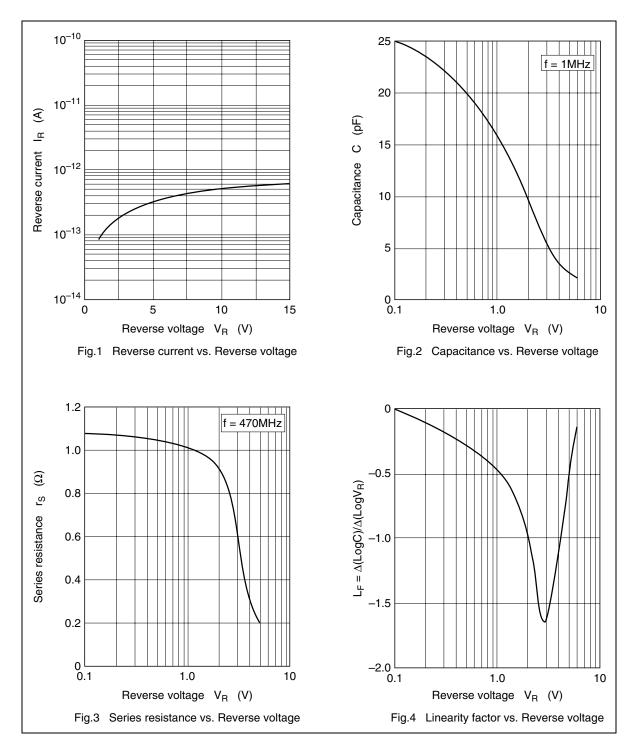
Electrical Characteristics

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

Item	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}			100		$V_{_{\rm R}} = 10 \text{ V}, \text{ Ta} = 60^{\circ}\text{C}$
Capacitance	C ₁	15.0	_	16.5	pF	$V_{_{\mathrm{R}}} = 1 \text{ V}, \text{ f} = 1 \text{ MHz}$
	C ₂	9.0		10.2	_	$V_{_{\mathrm{R}}}$ = 2 V, f = 1 MHz
	C ₃	5.0		6.0	_	$V_{_{\mathrm{R}}}$ = 3 V, f = 1 MHz
Capacitance ratio	n	2.2	_		_	C ₁ / C ₃
Series resistance	r _s		_	1.1	Ω	V _R = 2 V, f = 470 MHz



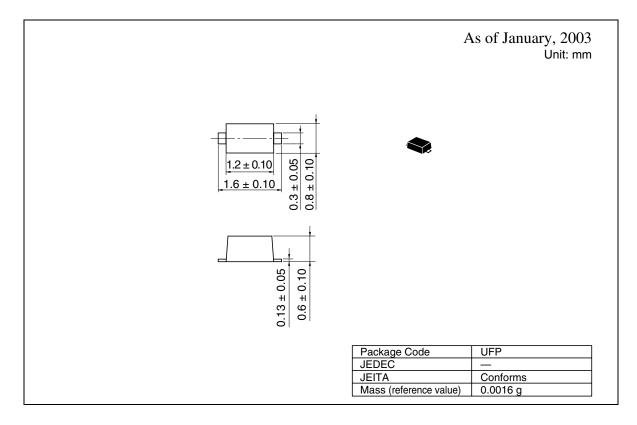
Main Characteristic





HVC368B

Package Dimensions





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Keep safety first in your circuit designs!

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