RENESAS

HVC358B

Variable Capacitance Diode for VCO

REJ03G0085-0100Z (Previous: ADE-208-418) Rev.1.00 Sep.17.2003

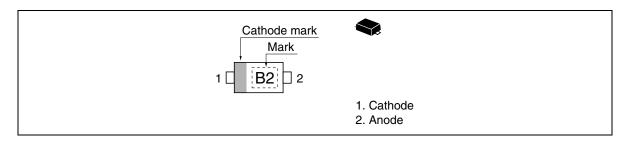
Features

- High capacitance ratio. (n = 2.2 min)
- Low series resistance. (rs = 0.4Ω max)
- Good C-V linearity.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVC358B	B2	UFP

Pin Arrangement





Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V _R	15	V
Junction temperature	Tj	125	٥C
Storage temperature	Tstg	–55 to +125	٥C

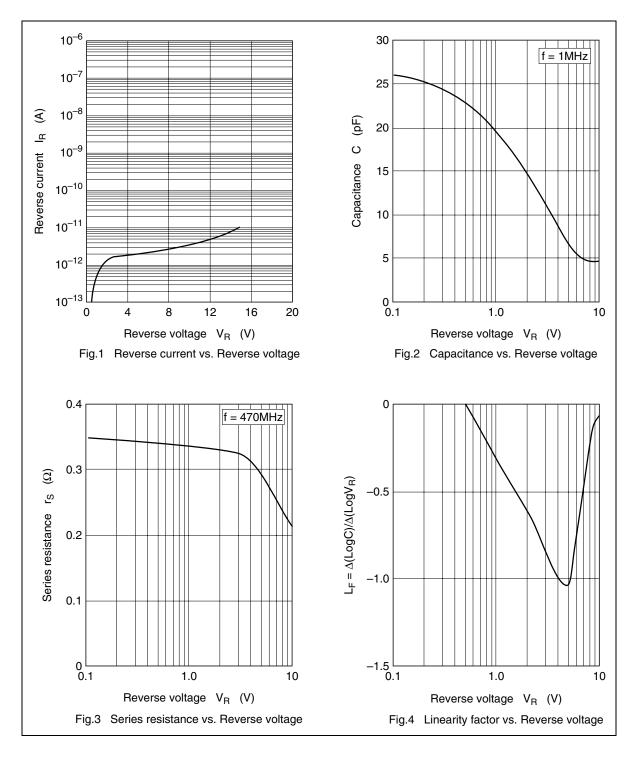
Electrical Characteristics

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

ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 15 V
	I _{R2}	_	_	100	_	V _R = 15 V
Capacitance	C ₁	19.5	_	21.0	pF	$V_{_{\mathrm{H}}} = 1 \text{ V}, \text{ f} = 1 \text{ MHz}$
	C ₄	8.0	_	9.3	_	$V_{R} = 4 V$, f = 1 MHz
Capacitance ratio	n	2.2	—	_	_	C ₁ /C ₄
Series resistance	r _s	_	_	0.4	Ω	$V_{_{\rm H}} = 1 V, f = 470 MHz$



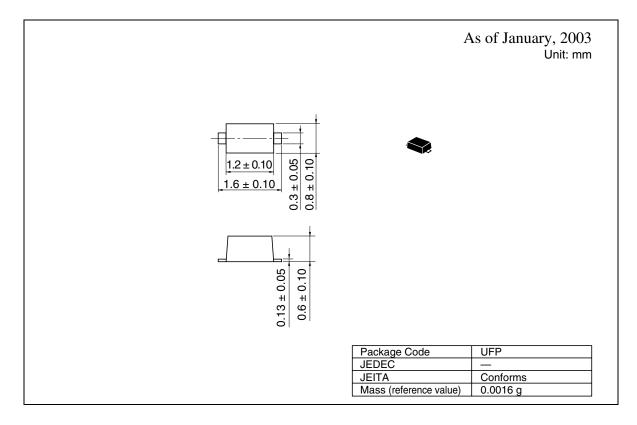
Main Characteristic



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HVC358B

Package Dimensions





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