

HVC372B

Variable Capacitance Diode for VCO

REJ03G0088-0100Z (Previous: ADE-208-497)

Previous: ADE-208-497) Rev.1.00

Sep.17.2003

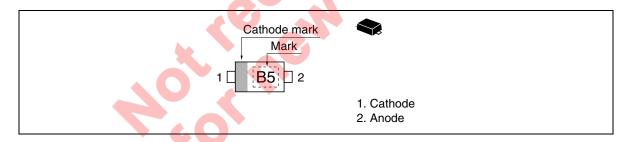
Features

- High capacitance ratio. (n = 2.0 min)
- Good linearity of C-V curve.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC372B	B5	UFP

Pin Arrangement



Absolute Maximum Ratings

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

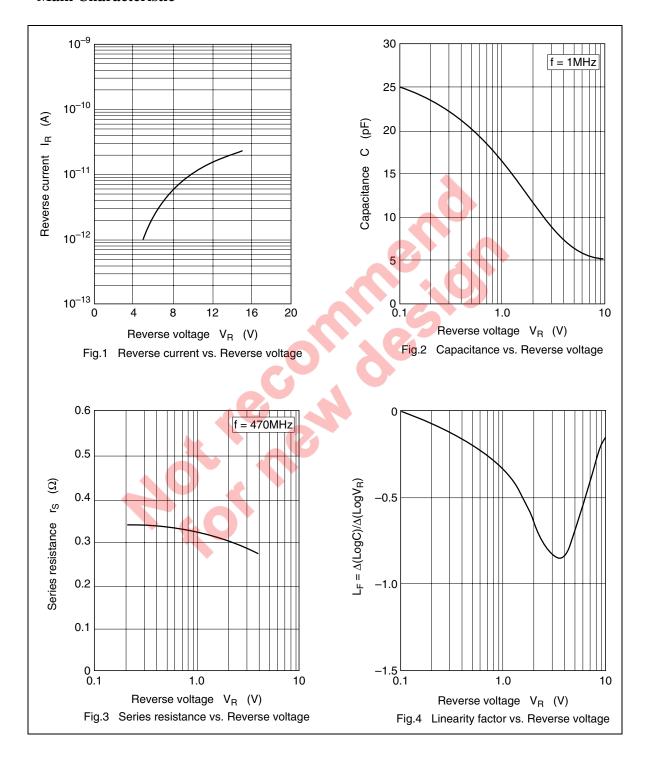
Item	Symbol	Value	Unit	
Reverse voltage	V _R	15	V	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Electrical Characteristics

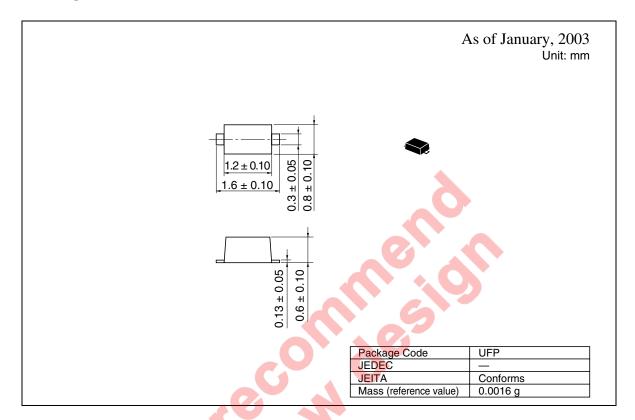
 $(Ta = 25^{\circ}C)$

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	15.0	_	17.0	pF	V _R = 1 V, f = 1 MHz
	C ₄	7.0	_	8.5		$V_R = 4 \text{ V}, f = 1 \text{ MHz}$
Capacitance ratio	n	2.0	_		_	C ₁ /C ₄
Series resistance	r _s	_		0.4	Ω	V _R = 1 V, f = 470 MHz

Main Characteristic



Package Dimensions



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