

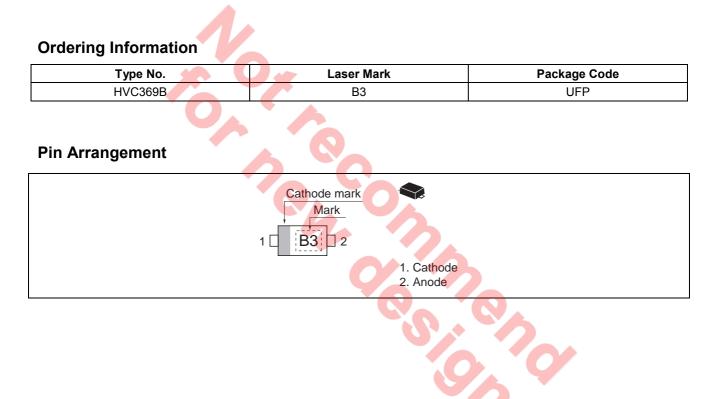
# HVC369B

Variable Capacitance Diode for VCO

REJ03G0491-0300 (Previous: ADE-208-446B) Rev.3.00 Jan 17, 2005

# Features

- Low capacitance and to be usable at GHz.
- High capacitance ratio. (n = 2.3 min)
- Low series resistance. ( $r_s = 0.5\Omega \text{ max}$ )
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.





# Absolute Maximum Ratings

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

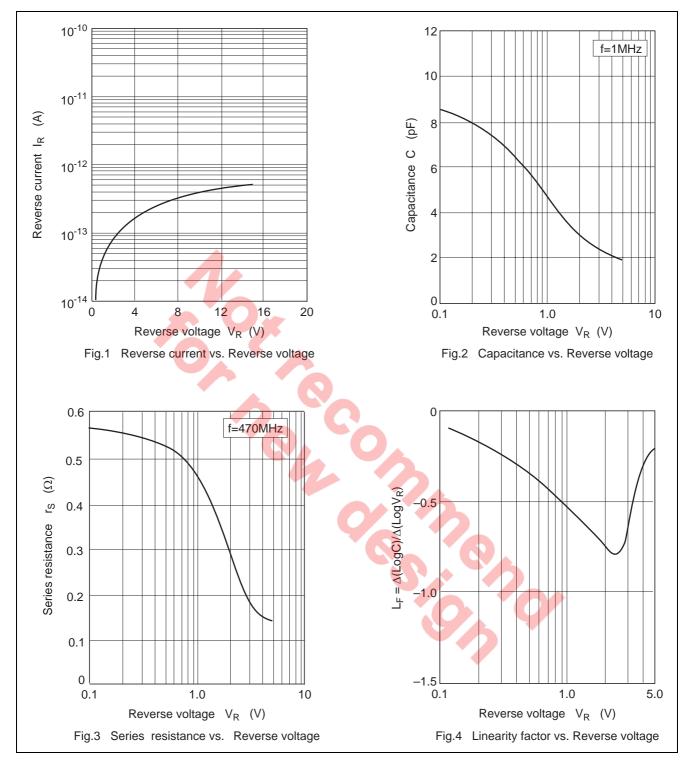
Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	٥C

# **Electrical Characteristics**

						$(Ta = 25^{\circ}C)$		
ltem	Symbol	Min	Тур	Max	Unit	Test Condition		
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> =15 V		
	I <sub>R2</sub>	_		100		V <sub>R</sub> = 15 V, Ta = 60°C		
Capacitance	C <sub>1</sub>	4.65		5.15	pF	V <sub>R</sub> = 1 V, f = 1 MHz		
	C <sub>4</sub>	1.85	_	2.15		V <sub>R</sub> = 4 V, f = 1 MHz		
Capacitance ratio	n	2.3	_	_	—	C <sub>1</sub> / C <sub>4</sub>		
Series resistance	rs		_	0.5	Ω	V <sub>R</sub> = 1 V, f = 470 MHz		

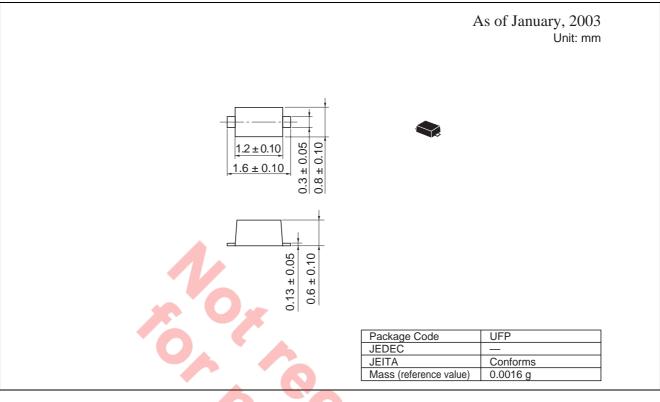


# **Main Characteristic**





# **Package Dimensions**







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