

HVC380B

Variable Capacitance Diode for VCO

REJ03G0493-0100

(Previous: ADE-208-1125)

Rev.1.00 Jan 19, 2005

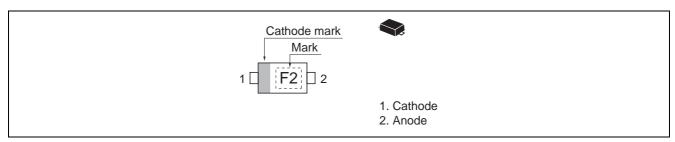
Features

- High capacitance ratio. (n = 1.70 min)
- Low series resistance. ($r_s = 0.80\Omega \text{ max}$)
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC380B	F2	UFP

Pin Arrangement



Absolute Maximum Ratings

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

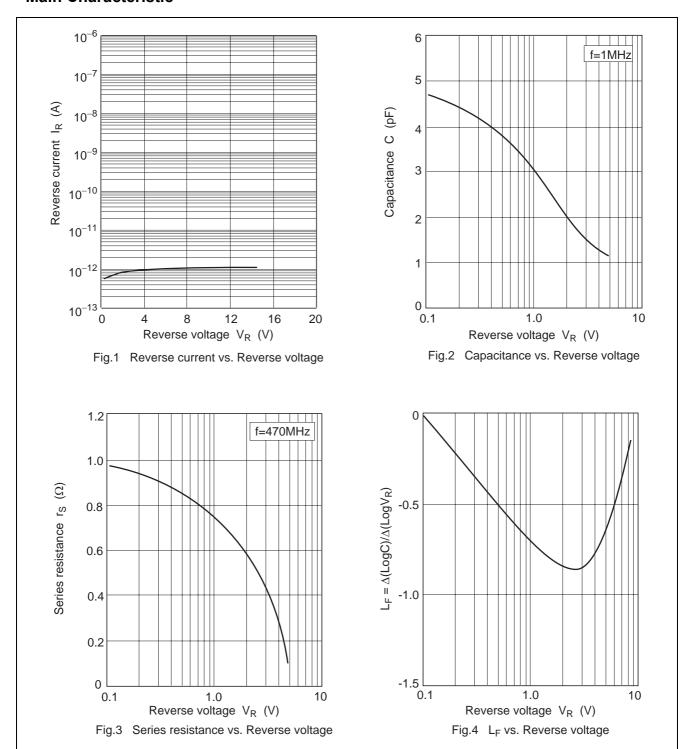
Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

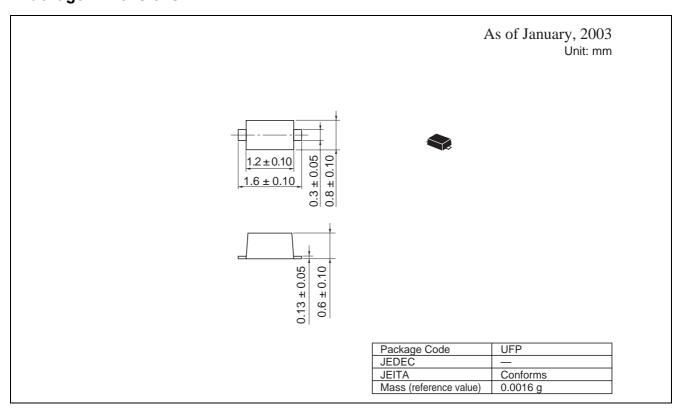
 $(Ta = 25^{\circ}C)$

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	2.880	_	3.120	pF	V _R = 1 V, f = 1 MHz
	C ₃	1.660	_	1.795		V _R = 3 V, f = 1 MHz
	C ₄	1.360	_	1.471		V _R = 4 V, f = 1 MHz
Capacitance ratio	n ₁	1.70	_	1.84	_	C ₁ / C ₃
	n ₂	2.08	_	2.25		C ₁ / C ₄
Series resistance	r _S	_	_	0.80	Ω	V _R = 1 V, f = 470 MHz

Main Characteristic



Package Dimensions



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