

# **HVC350B**

# Variable Capacitance Diode for VCO

REJ03G0083-0100Z

(Previous: ADE-208-414)

Rev.1.00 Sep.17.2003

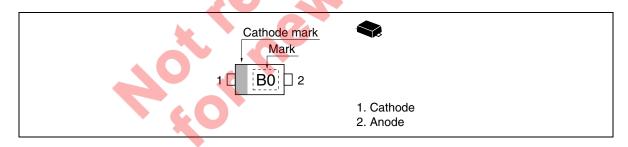
#### **Features**

- High capacitance ratio. (n = 2.8 min)
- Low series resistance. (rs =  $0.5 \Omega \text{ max}$ )
- Good C-V linearity.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

#### **Ordering Information**

Type No.	Laser Mark	Package Code
HVC350B	В0	UFP

### **Pin Arrangement**



## **Absolute Maximum Ratings**

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

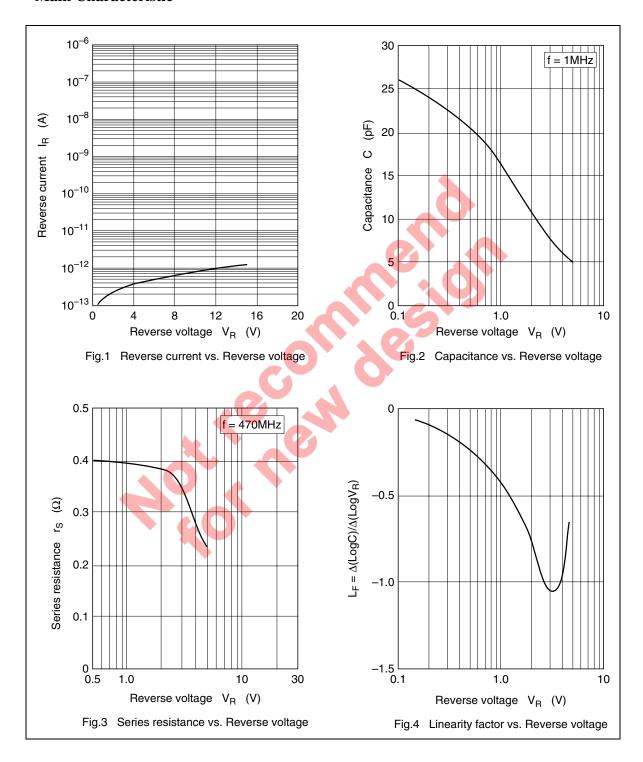
Item	Symbol	Value	Unit
Reverse voltage	$V_R$	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

#### **Electrical Characteristics**

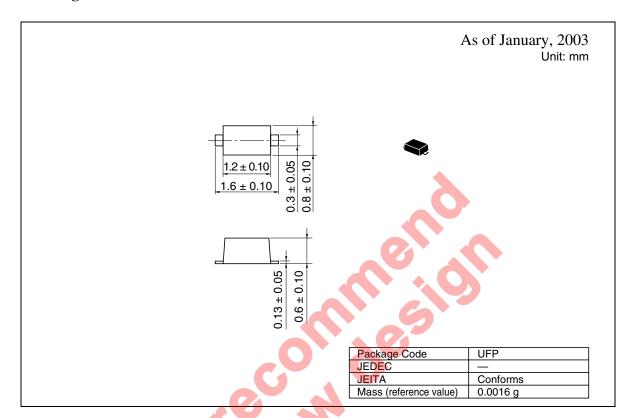
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition			
Reverse current	I <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>	15.5	_	17.0	pF	V <sub>R</sub> = 1 V, f = 1 MHz			
	C <sub>4</sub>	5.0	_	6.0		$V_R = 4 \text{ V, } f = 1 \text{ MHz}$			
Capacitance ratio	n	2.8	_		-	C <sub>1</sub> /C <sub>4</sub>			
Series resistance	r <sub>s</sub>	_		0.5	Ω	V <sub>R</sub> = 1 V, f = 470 MHz			

#### **Main Characteristic**



### **Package Dimensions**



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