

# **HVC385B**

Variable Capacitance Diode for VCO

REJ03G0495-0200 (Previous: ADE-208-1403A) Rev.2.00 Jan 19, 2005

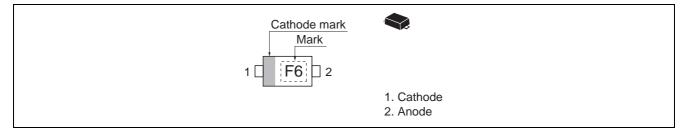
### Features

- High capacitance ratio. (n = 2.43 min)
- Low series resistance. (rs =  $0.75 \Omega$  max)
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Code
HVC385B	F6	UFP

### **Pin Arrangement**





## **Absolute Maximum Ratings**

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

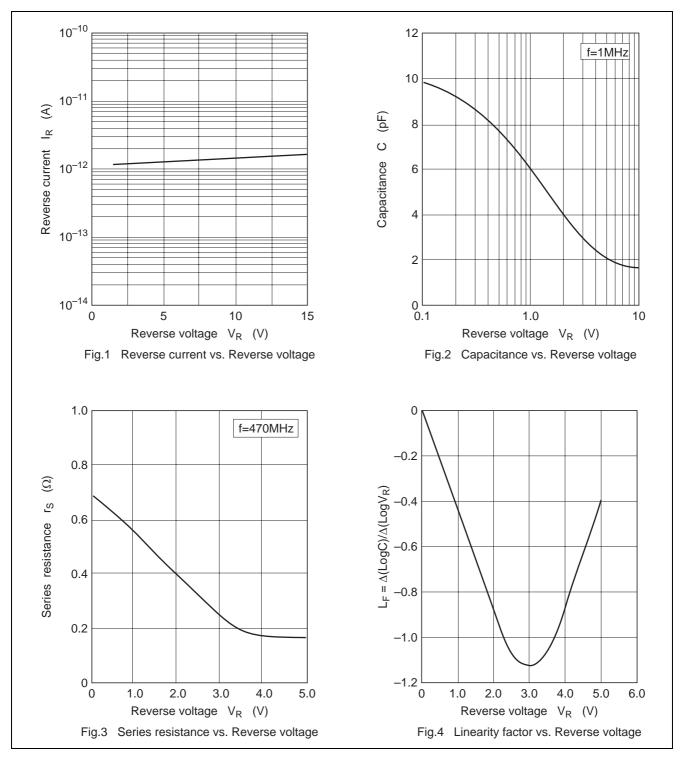
Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

### **Electrical Characteristics**

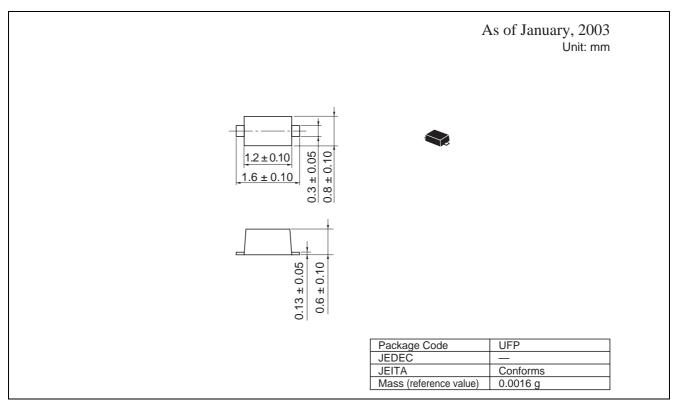
 $(Ta = 25^{\circ}C)$ Symbol **Test Condition** Item Min Max Unit Тур Reverse current 10 V<sub>R</sub> = 10 V  $I_{R1}$ nA \_\_\_\_ — V<sub>R</sub> = 10 V, Ta = 60°C \_\_\_\_ 100  $I_{R2}$ — Capacitance  $C_{0.5} \\$ 7.20 \_ 7.70 pF V<sub>R</sub> = 0.5 V, f = 1 MHz V<sub>R</sub> = 2.5 V, f = 1 MHz C<sub>2.5</sub> 2.70 3.20 — Capacitance ratio 2.43 2.57 C<sub>0.5</sub> / C<sub>2.5</sub> n \_\_\_\_ V<sub>R</sub> = 1 V, f = 470 MHz Series resistance rs \_ 0.75 — Ω



### **Main Characteristic**



# Package Dimensions





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