

HVC385B

Variable Capacitance Diode for VCO

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

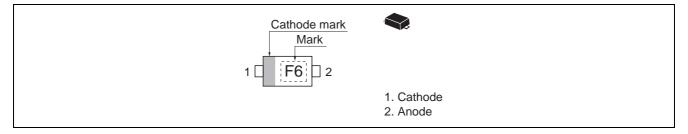
Features

- High capacitance ratio. (n = 2.43 min)
- Low series resistance. (rs = 0.75Ω 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

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

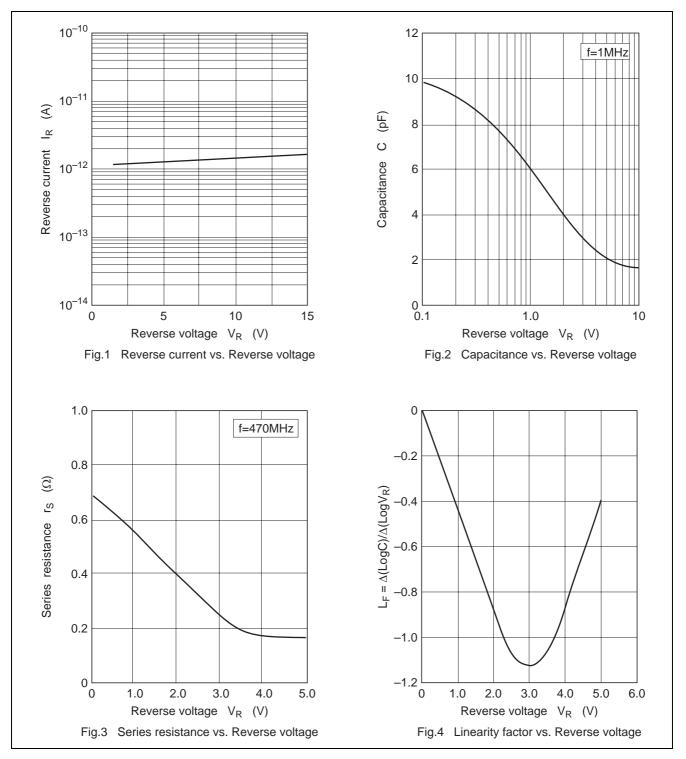
| Item | Symbol | Value | Unit |
|----------------------|----------------|-------------|------|
| Reverse voltage | V _R | 15 | V |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | Tstg | –55 to +125 | °C |

Electrical Characteristics

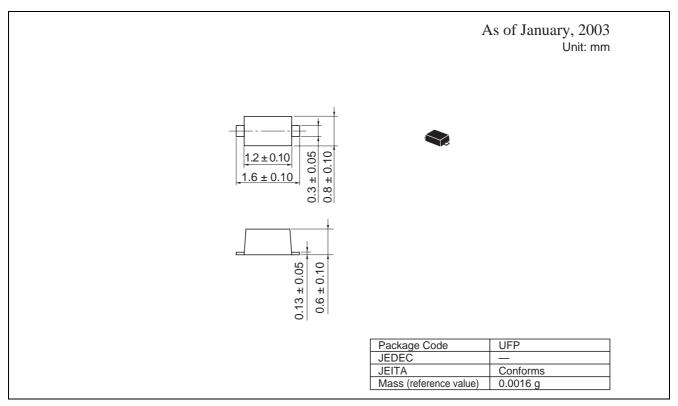
 $(Ta = 25^{\circ}C)$ Symbol **Test Condition** Item Min Max Unit Тур Reverse current 10 V_R = 10 V I_{R1} nA ____ — V_R = 10 V, Ta = 60°C ____ 100 I_{R2} — Capacitance $C_{0.5} \\$ 7.20 _ 7.70 pF V_R = 0.5 V, f = 1 MHz V_R = 2.5 V, f = 1 MHz C_{2.5} 2.70 3.20 — Capacitance ratio 2.43 2.57 C_{0.5} / C_{2.5}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



Main Characteristic



Package Dimensions





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