

HVU362

Variable Capacitance Diode for VCO

REJ03G0217-0100Z Rev.1.00 Apr 16, 2004

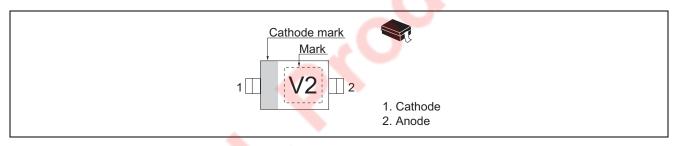
Features

- High capacitance ratio. (n =3.0 min)
- Good C-V linearity.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HVU362 | V2 | URP |

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 | |

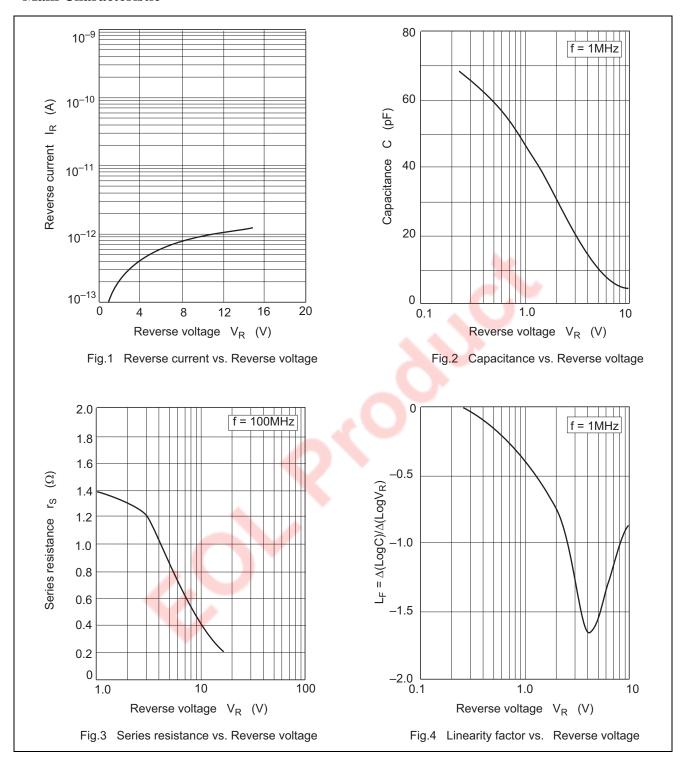
Electrical Characteristics

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

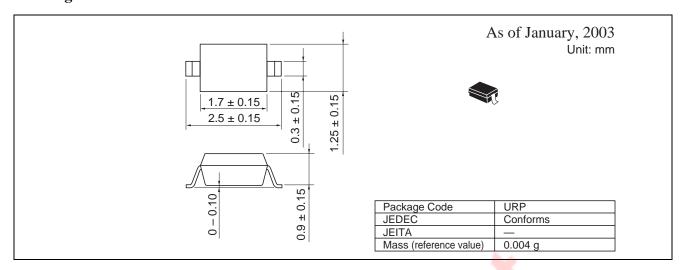
| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|-------------------|-----------------|------|-----|------|------|--|
| Reverse current | I _{R1} | _ | _ | 10 | nA | $V_{R} = 10 \text{ V}$ |
| | I _{R2} | _ | _ | 100 | | V _R = 10 V, Ta =60°C |
| Capacitance | C ₁ | 41.6 | _ | 49.9 | pF | $V_R = 1 V, f = 1 MHz$ |
| | C ₄ | 10.1 | _ | 14.8 | | $V_R = 4 V, f = 1 MHz$ |
| Capacitance ratio | n | 3.0 | _ | _ | _ | C ₁ / C ₄ |
| Series resistance | rs | _ | _ | 2.0 | Ω | $V_R = 4 \text{ V}, f = 100 \text{ MHz}$ |
| ESD-Capability *1 | _ | 80 | _ | _ | V | C = 200 pF, Both forward and reverse direction |
| | | | | | | 1 pulse. |

Note: 1. Failure criterion ; $I_R \ge 20$ nA at $V_R = 10$ V

Main Characteristic



Package Dimensions



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April 1st, 2010 Renesas Electronics Corporation

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