

HVL368B

Variable Capacitance Diode for VCO

REJ03G0036-0100Z Rev.1.00 Jun.16.2003

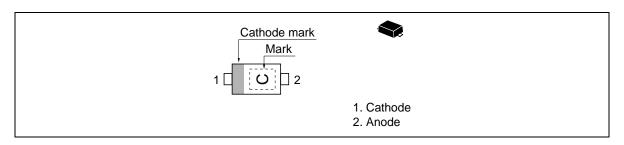
Features

- Low tolerance.
- Low series resistance. ($r_s = 1.1 \Omega \text{ max}$)
- Good C-V linearity.
- Extremely small Flat Package (EFP) is suitable for surface mount design.

Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HVL368B | С | EFP |

Pin Arrangement



Absolute Maximum Ratings

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

| Item | Symbol | Value | Unit |
|----------------------|--------|-------------|------|
| Reverse voltage | V_R | 10 | V |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

Electrical Characteristics

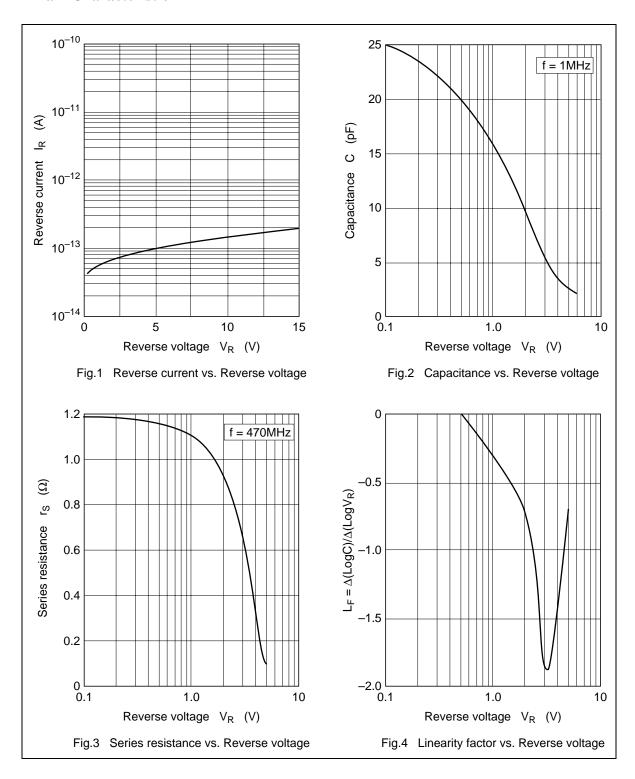
 $(Ta = 25^{\circ}C)$

| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|-------------------|-----------------|------|-----|------|------|-----------------------------------|
| Reverse current | I _{R1} | _ | _ | 10 | nA | V _R = 10 V |
| | I _{R2} | | | 100 | _ | V _R = 10 V, Ta = 60°C |
| Capacitance | C ₁ | 15.0 | _ | 16.5 | pF | V _R = 1 V, f = 1 MHz |
| | C ₂ | 9.0 | _ | 10.2 | | V _R = 2 V, f = 1 MHz |
| | C ₃ | 5.0 | _ | 6.0 | _ | V _R = 3 V, f = 1 MHz |
| Capacitance ratio | n | 2.2 | _ | _ | _ | C_1/C_3 |
| Series resistance | r _s | | _ | 1.1 | Ω | V _R = 2 V, f = 470 MHz |

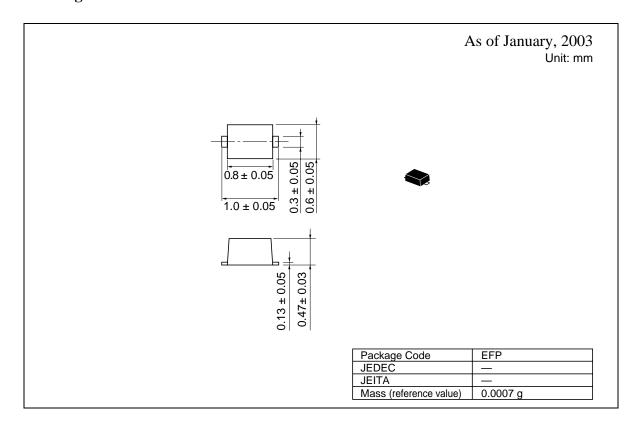
Notes: 1. Please do not use the soldering iron due to avoid high stress to the EFP package.

2. The material of lead is exposed for cutting plane. Therefore, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Main Characteristic



Package Dimensions



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