

BB910 ST

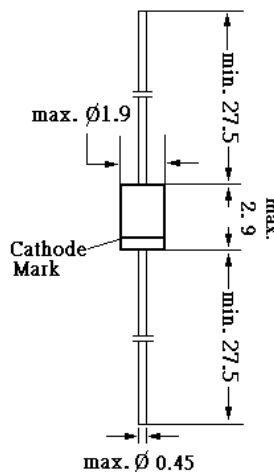
VHF VARIABLE CAPACITANCE DIODE

FEATURES

- Excellent linearity
- Matched to 2.5%
- C28: 2.5; ratio: 16
- Low series resistance.

APPLICATIONS

- Electronic tuning in VHF television tuners, band B up to 460 MHz
- VCO.

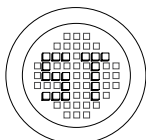


Glass case JEDEC DO-34

Dimensions in mm

Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

| Parameter | Symbol | Limits | Unit |
|--------------------------------|-----------|--------------|------|
| Continuous reverse voltage | V_R | 30 | V |
| Continuous forward current | I_F | 20 | mA |
| Storage temperature | T_{stg} | -55...+150 | ? |
| Operating junction temperature | T_j | -55 ... +100 | ? |



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РАДИОТЕХ

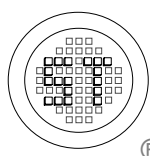
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Electrical Characteristics (Ta = 25 °C)

| Parameter | Symbol | Min | Typ | Max | Unit | Conditions |
|----------------------|----------------------------|-----------|--------|-----------|----------|---|
| Reverse current | I_R | - - | - - | 10 200 | nA | $V_R = 28V$ $V_R = 28V, T_a = 85^\circ C$ |
| Diode capacitance | C_d | 38 2.3 | - - | - 2.7 | pF | $V_R = 0.5V, f = 1MHz$ $V_R = 28V, f = 1MHz$ |
| Capacitance ratio | $C_{d(0.5V)} / C_{d(28V)}$ | 14 | - | - | - | $f = 1MHz$ |
| Capacitance matching | $\Delta C_d / C_d$ | - | - | 2.5 | % | $V_R = 0.5V$ to $28V$ |
| Series resistance | r_s | - | - | 1 | Ω | $f = 100MHz$, note 1 |

1) V_R is the value at which $C_d=40pF$



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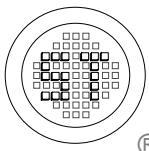
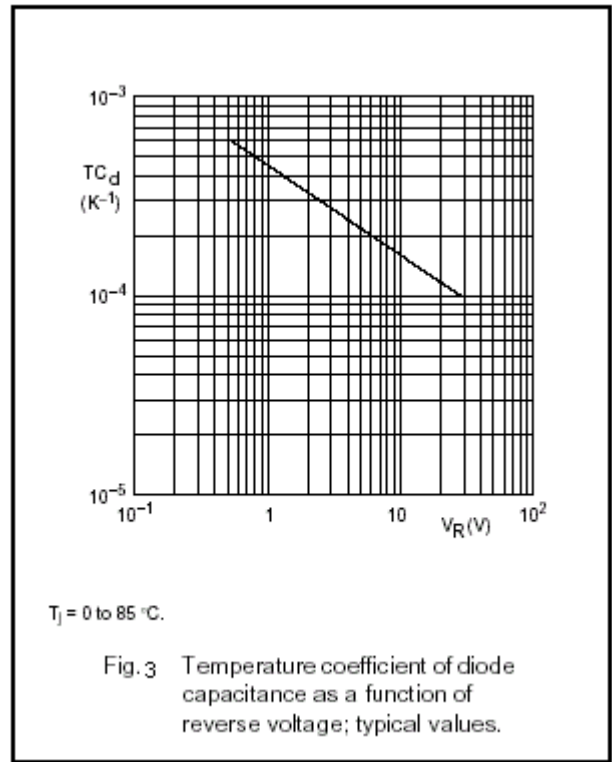
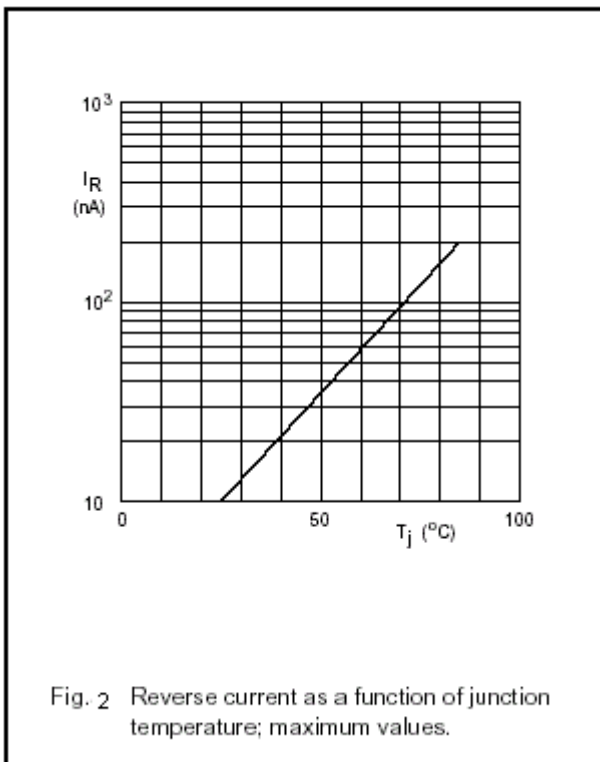
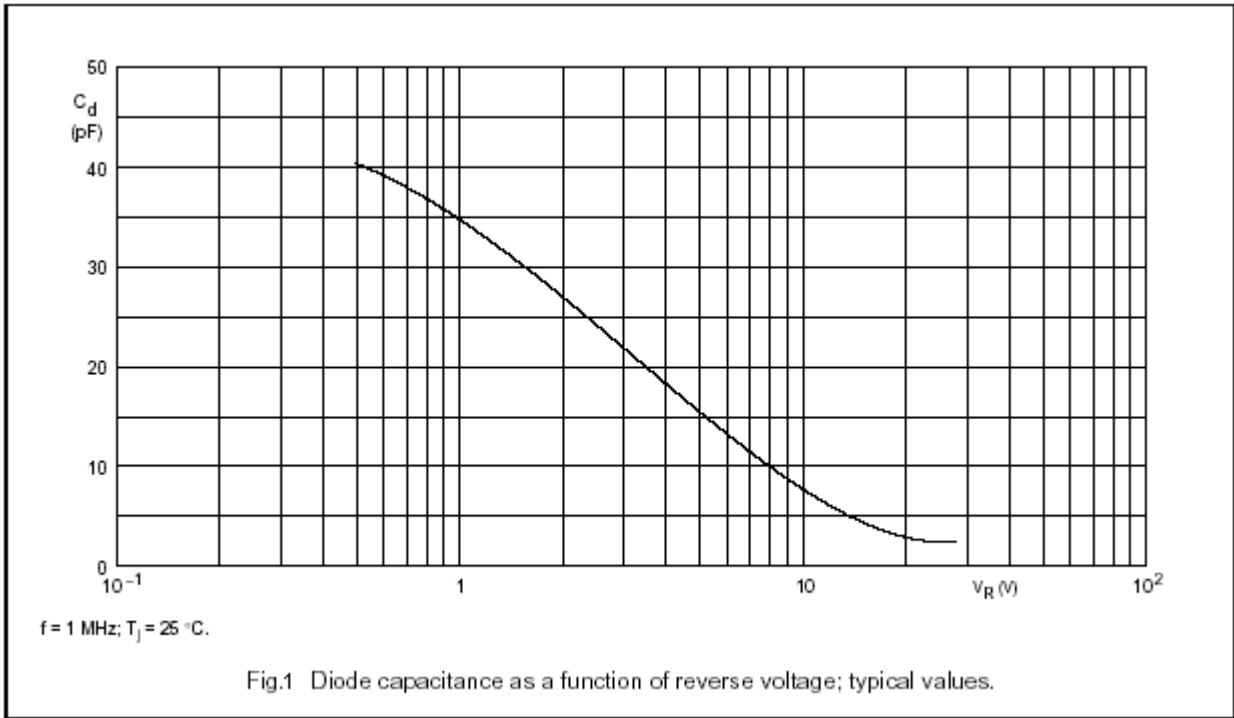


ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 250159-04-002-04

Dated : 02/01/2005



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