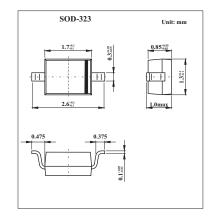
SMD Type Diodes

Low-Voltage Variable Capacitance Diode BB156

Features

- Excellent linearity
- Very small plastic SMD package
- Very low series resistance.



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--------------------------------|--------|------------|------|
| continuous reverse voltage | VR | 10 | V |
| continuous forward current | lF | 20 | mA |
| storage temperature | Tstg | -55 to 150 | °C |
| operating junction temperature | Tj | -55 to 125 | °C |

■ Electrical Characteristics Ta = 25 °C

| Parameter | Symbol | Testconditons | Min | Тур | Max | Unit |
|-------------------------|---------------------------------|---|------|-----|------|------|
| reverse current | lr | VR = 10 V | | | 10 | nA |
| | | VR = 10 V; Tj = 85 ℃ | | | 200 | nA |
| diode series resistance | rs | f = 470 MHz; VR is the value at which Cd = 9 pF | | 0.4 | 0.7 | Ω |
| diode capacitance Cd | | VR = 1 V,f = 1 MHz | 14.4 | 16 | 17.6 | pF |
| | | VR = 4 V,f = 1 MHz | 7.6 | 8.6 | 9.6 | pF |
| | | VR = 7.5 V,f = 1 MHz | 4.2 | 4.8 | 5.4 | pF |
| capacitance ratio | $\frac{C_{d(1V)}}{C_{d(7.5V)}}$ | f = 1 MHz | 2.7 | 3.3 | 3.9 | |

Marking

| Marking | PF |
|---------|----|

