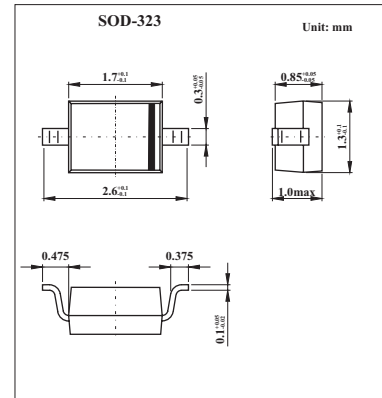


# KB156(BB156)

■ 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     | V <sub>R</sub>   | 10         | V    |
| continuous forward current     | I <sub>F</sub>   | 20         | mA   |
| storage temperature            | T <sub>stg</sub> | -55 to 150 | °C   |
| operating junction temperature | T <sub>J</sub>   | -55 to 125 | °C   |

■ Electrical Characteristics Ta = 25°C

| Parameter               | Symbol                          | Testconditions  | Min  | Typ | Max  | Unit |
|-------------------------|---------------------------------|---|------|-----|------|------|
| reverse current         | I <sub>R</sub>                  | V <sub>R</sub> = 10 V   |      |     | 10   | nA   |
|                         |                                 | V <sub>R</sub> = 10 V; T <sub>J</sub> = 85 °C                           |      |     | 200  | nA   |
| diode series resistance | r <sub>s</sub>                  | f = 470 MHz; V <sub>R</sub> is the value at which C <sub>d</sub> = 9 pF |      | 0.4 | 0.7  | Ω    |
| diode capacitance       | C <sub>d</sub>                  | V <sub>R</sub> = 1 V, f = 1 MHz   | 14.4 | 16  | 17.6 | pF   |
|                         |                                 | V <sub>R</sub> = 4 V, f = 1 MHz   | 7.6  | 8.6 | 9.6  | pF   |
|                         |                                 | V <sub>R</sub> = 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 |
|---------|----|