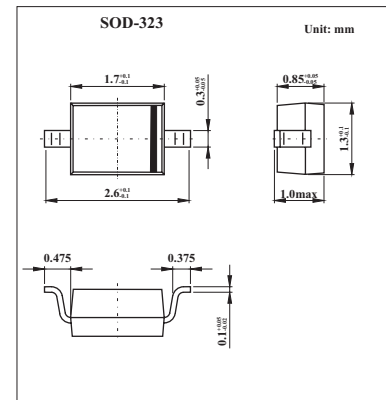


Low-Voltage Variable Capacitance Diode

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 _R	10	V
continuous forward current	I _F	20	mA
storage temperature	T _{stg}	-55 to 150	°C
operating junction temperature	T _j	-55 to 125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
reverse current	I _R	V _R = 10 V			10	nA
		V _R = 10 V; T _j = 85 °C			200	nA
diode series resistance	r _s	f = 470 MHz; V _R is the value at which C _d = 9 pF		0.4	0.7	Ω
diode capacitance	C _d	V _R = 1 V, f = 1 MHz	14.4	16	17.6	pF
		V _R = 4 V, f = 1 MHz	7.6	8.6	9.6	pF
		V _R = 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
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