BB729

Tuner Diodes

SOD-123



Dimensions in inches and (millimeters)

FEATURES

 Silicon epitaxial planar capacitance diodes with very wide effective capacitance variation for tuning the whole range of VHF CTV tun-

ers.

These diodes are available as singles or as matched sets of two or more units according to the tracking condition described in the table of characteristics.

This diode is also available in SOD-323 case with the type designation BB729S.

MECHANICAL DATA

Case: SOD-123 Plastic Case Weight: approx. 0.01 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Value	Unit
Reverse Voltage	V _R	32	V
Ambient Temperature	T _{amb}	125	°C
Storage Temperature Range	TS	-55 to +125	°C



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ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	32	-	-	V
Leakage Current at V _R = 30 V	I _R	-	-	10	nA
Capacitance f = 1 MHz at V_R = 28 V at V_R = 1 V	C _{tot} C _{tot}	2.4 36.0	-	2.9 42.0	pF pF
Effective Capacitance Ratio, $f = 1 \text{ MHz}$ at $V_R = 1$ to 28 V	<u>C_{tot} (1 V)</u> C _{tot} (28V)	13.5	-	-	_
Series Resistance at f = 470 MHz, C _{tot} = 25 pF	r _s	-	0.80	-	Ω
Series Inductance	Ls	-	2.5	-	nH

For any two of six consecutive diodes in the carrier tape, the maximum capacitance deviation in the reverse bias voltage of V_R = 0.5 to 28 V is max. 2.5%



RATINGS AND CHARACTERISTIC CURVES BB729

Capacitance versus reverse voltage



Relative capacitance versus junction temperature





Leakage current versus reverse voltage

Q-Factor versus frequency





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