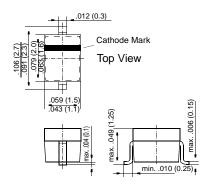
BB729S

Tuner Diodes

SOD-323



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 tuners.



- 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-123 case with the type designation BB729.

MECHANICAL DATA

Case: SOD-323 Plastic Package

Weight: approx. 0.004 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	T _S	-55 to +125	°C



BB729S

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

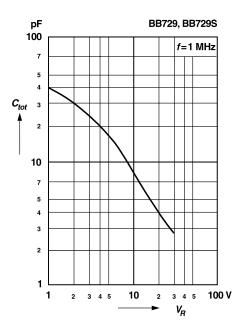
	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	32	_	-	V
Leakage Current at V _R = 30 V	I _R	_	_	10	nA
Capacitance f = 1 MHz at V_R = 28 V at V_R = 1 V	C _{tot}	2.4 36.0	- -	2.9 42.0	pF pF
Effective Capacitance Ratio, $f = 1 \text{ MHz}$ at $V_R = 1 \text{ to } 28 \text{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

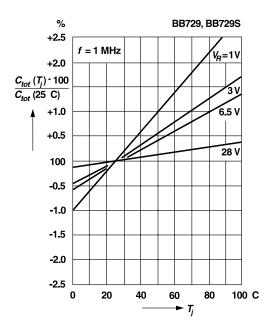


RATINGS AND CHARACTERISTIC CURVES BB729S

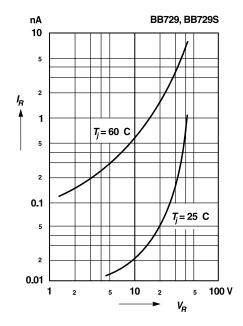
Capacitance versus reverse voltage



Relative capacitance versus junction temperature



Leakage current versus reverse voltage



Q-Factor versus frequency

