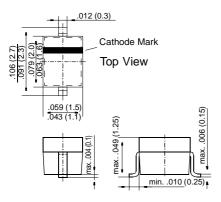
BB745S

Tuner Diodes

<u>SOD-323</u>



Dimensions in inches and (millimeters)

FEATURES

- Silicon epitaxial planar diodes with very wide effective capacitance variation for tuning the wholw renge of UHF television bands.
- These BB745S tuner diodes are available as singles or as matched sets of more units according to the tracking condition described in the table of characteristics.

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	Τ _S	-55 to +125	°C



BB745S

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \ \mu A$	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}	1.8 18.5		2.2 21.5	pF pF
Effective Capacitance Ratio, f = 1 MHz at V_R = 1 to 28 V	$\frac{C_{tot} (1 \text{ V})}{C_{tot} (28 \text{V})}$	9.0	-	11.0	-
Series Resistance at f = 470 MHz, C _{tot} = 14 pF	r _s	_	0.65	-	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%

