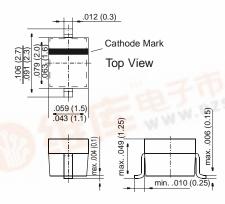
BB369S

Tuner Diodes

SOD-323



Dimensions in inches and (millimeters)

FEATURES

 Silicon epitaxial planar capacitance diodes with very wide effective capacitance variation for tunig the VHF range and hyperband in television 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.

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

DZSG.GG	Symbol	Value	Unit
Rev <mark>erse Voltage</mark>	V _R	32	V
Ambient Temperature	T _{amb}	125	°C
Storage Temperature Range	T _S	-55 to +125	°C





BB369S

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, $f = 1 \text{ MHz}$ at $V_R = 28 \text{ V}$ at $V_R = 25 \text{ V}$ at $V_R = 1 \text{ V}$ at $V_R = 2 \text{ V}$	C _{tot} C _{tot} C _{tot} C _{tot}	2.65 2.75 55.0 42.5	- - - -	2.88 3.0 60.5 47.5	pF pF 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)	20.0	_	23.0	_
Effective Capacitance Ratio at V _R = 2 to 25 V	C _{tot} (2 V) C _{tot} (25V)	15.3	_	17.8	-
Effective Capacitance Ratio at $V_R = 1$ to 2 V	C _{tot} (1 V) C _{tot} (2 V)	1.29	_		_
Series Resistance at f = 300 MHz, C _{tot} = 25 pF	r _S	-	1.0	_	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. 3.0%

