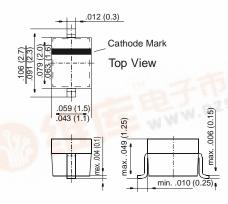
# **BB701S**

# Tuner Diodes

#### SOD-323



Dimensions in inches and (millimeters)

### **FEATURES**

 Silicon epitaxial planar capacitance diode for tuning the frequency range of 950 ... 1750 MHz, especially suited for satellite TV 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

W.DZSC.	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	32	V
Ambient Temperature	T <sub>A</sub>	125	°C
Storage Temperature Range	T <sub>S</sub>	-55 to +125	°C





# **BB701S**

### **ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Capacitance at $f = 1$ MHz at $V_R = 1$ V at $V_R = 28$ V	C <sub>tot</sub> C <sub>tot</sub>	8 0.9		9 1.2	pF pF
Effective Capacitance Ratio at V <sub>R</sub> = 1 to 28 V	C <sub>tot</sub> (1 V) C <sub>tot</sub> (28V)	8	_	9	_
Series Resistance at f = 470 MHz, C <sub>tot</sub> = 9 pF	r <sub>s</sub>	_	_	1.2	Ω
Leakage Current at V <sub>R</sub> = 30 V	I <sub>R</sub>	_	_	30	nA

For any two of six consecutive diodes in the carrier tape the maximum capacitance deviation in the reverse bias voltage range of  $V_R = 1 \text{ V}$  to  $V_R = 28 \text{ V}$  is 2.5%

