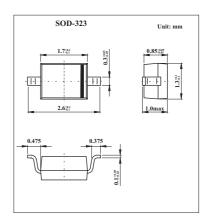
SMD Type Diodes

## Tuner Diodes BB731S

## Features

- Silicon epitaxial planar capacitance diodes with very wide effective capacitance variation for tuning the VHF range 41 □ 170 MHz in hyper hyperband 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.



## ■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Value	Unit
Reverse Voltage	VR	32	V
Ambient Temperature	Tamb	125	$^{\circ}$
Storage Temperature Range	Ts	-55 to +125	$^{\circ}$

## ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse Breakdown Voltage	VBR(R)	IR = 100 μ A	32			V
Leakage Current	lr.	V <sub>R</sub> = 30 V			10	nA
Capacitance	Ctot	f = 1 MHz;VR = 28 V	2.9		3.4	pF
	Ctot	f = 1 MHz;VR = 1 V	62		76	
Effective Capacitance Ratio	Cd(1V)/Cd(28V)	f = 1 MHz;VR = 1 to 28 V	19.5			
Series Resistance	rs	f = 300 MHz, Ctot = 25 pF		1		Ω
Series Inductance	Ls			2.5		nH