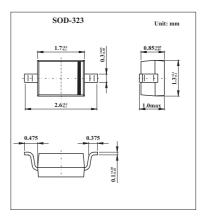
SMD Type Diodes

Tuner Diodes BB721S

■ Features

- Silicon epitaxial planar capacitance diodes with very wide effective capacitance variation for tuning the whole range of UHF television bands.
- Two BB721/BB721S tuner diodes in series are used for direct satellite receivers.
- 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	Vr 32	
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 _R = 30 V			10	nA
Capacitance	Ctot	f = 1 MHz;VR = 28 V	1.9		2.3	pF
		f = 1 MHz;VR = 1 V	17.5		20	
Effective Capacitance Ratio	Cd(1V)/Cd(28V)	f = 1 MHz;VR = 1 to 28 V	8.2		9.8	
Series Resistance	rs	f = 470 MHz, Ctot = 14 pF		0.55		Ω
Series Inductance	Ls			2.5		nH