

SMD Type

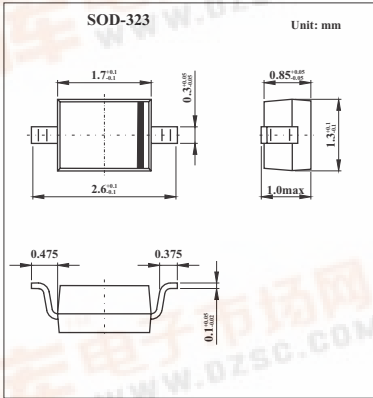
Diodes

Tuner Diodes

BB729S

■ Features

- Silicon epitaxial planar capacitance diodes with very wide effective capacitance variation for tuning the whole range of of VHF CTV 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	V_R	32	V
Ambient Temperature	T_{amb}	125	°C
Storage Temperature Range	T_s	-55 to +125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{BR(R)}$	$I_R = 100 \mu A$	32			V
Leakage Current	I_R	$V_R = 30 V$			10	nA
Capacitance	C_{tot}	$f = 1 MHz; V_R = 28 V$	2.4		2.9	pF
		$f = 1 MHz; V_R = 1 V$	36		42	
Effective Capacitance Ratio	$C_d(1V)/C_d(28V)$	$f = 1 MHz; V_R = 1 \text{ to } 28 V$	13.5			
Series Resistance	r_s	$f = 470 MHz, C_{tot} = 25 pF$		0.8		Ω
Series Inductance	L_s			2.5		nH

