

BB329

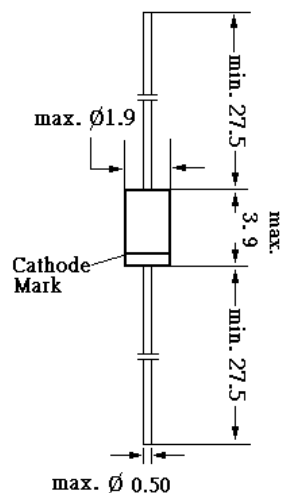
TUNER DIODE

Silicon Epitaxial Planar Capacitance Diode with very high effective capacitance ratio for tuning the whole VHF range in TV receivers, also suited for CTV.

These diodes are delivered matched according to the tracking condition described below.

The diodes are delivered taped.

Details see "Taping".

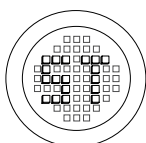


Glass case JEDEC DO-35

Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

	Symbol	Value	Unit
Reverse Voltage	V_R	32	V
Junction Temperature	T_j	125	$^{\circ}\text{C}$
Storage Temperature Range	T_S	-55 to +150	$^{\circ}\text{C}$



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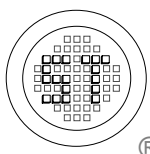
РАДИОТЕХ

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Characteristics at $T_{amb} = 25^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
Leakage Current at $V_R = 30\text{V}$	I_R	-	-	30	nA
Capacitance at $f = 1\text{MHz}$ at $V_R = 1\text{V}$ at $V_R = 3\text{V}$	C_{tot} C_{tot}	- 2.5	35 -	- 3.2	pF pF
Effective Capacitance Ratio at $V_R = 1$ to 28V	$\frac{C_{tot}(1\text{V})}{C_{tot}(28\text{V})}$	12	-	-	-
Series Resistance at $f = 330\text{MHz}$, $C_{tot} = 25\text{pF}$	r_s	-	0.85	-	ζ
Q-Factor at $f = 50\text{MHz}$, $V_R = 3\text{V}$ at $f = 300\text{MHz}$, $V_R = 25\text{V}$	Q Q	- -	180 250	- -	- -
Cutoff Frequency for $Q = 1$ at $V_R = 3\text{V}$	f_{Q1}	-	9	-	GHz
Series Resonance Frequency at $V_R = 25\text{V}$	f_0	-	1.5	-	GHz
Series Inductance (1.5 mm from case)	L_S	-	2.5	-	nH
Reverse Breakdown Voltage at $I_R = 10\mu\text{A}$	$V_{(BR)R}$	32	-	-	V
For any two diodes of a matched group the following tracking condition applies: In the reverse bias voltage range of $V_R = 0.5\text{V}$ to $V_R = 28\text{V}$ the maximum capacitance deviation is 2.5%.					



SEMTECH ELECTRONICS LTD.

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ISO/TS 16949 : 2002
Certificate No. 05103



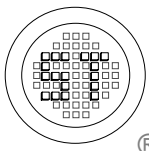
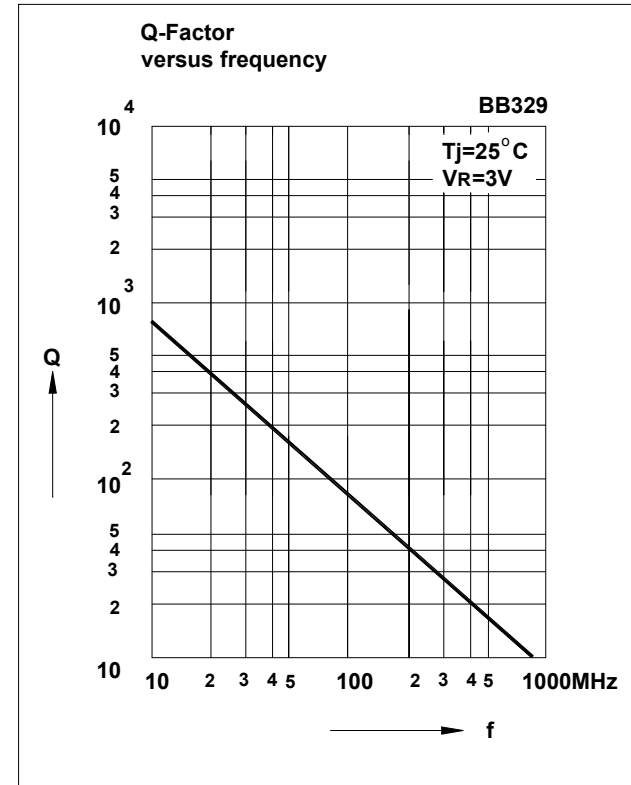
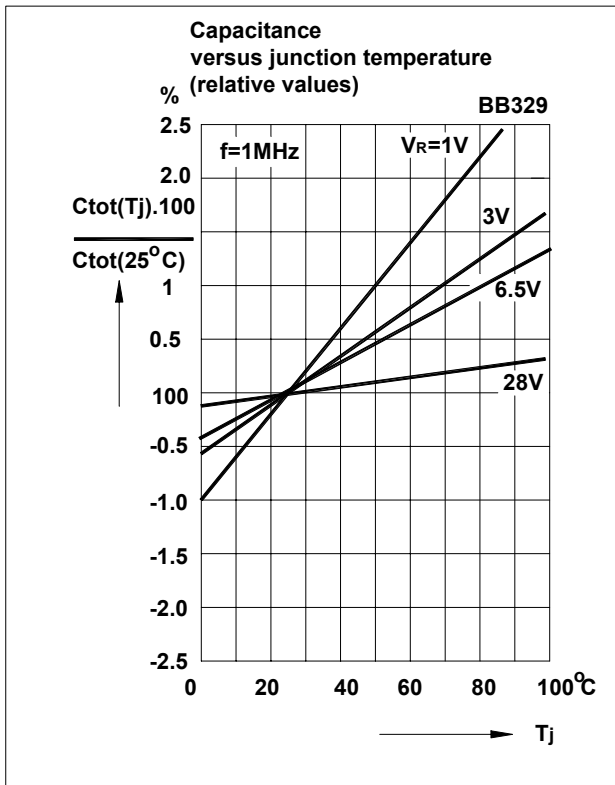
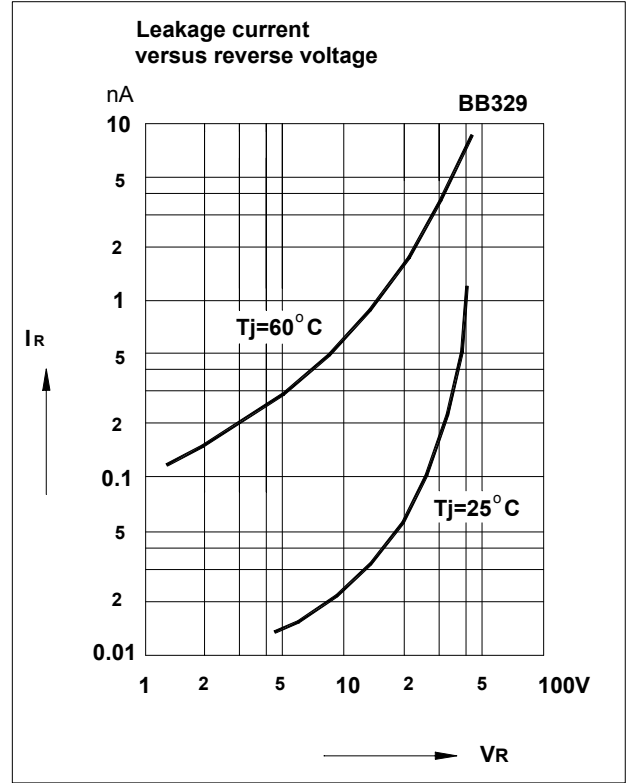
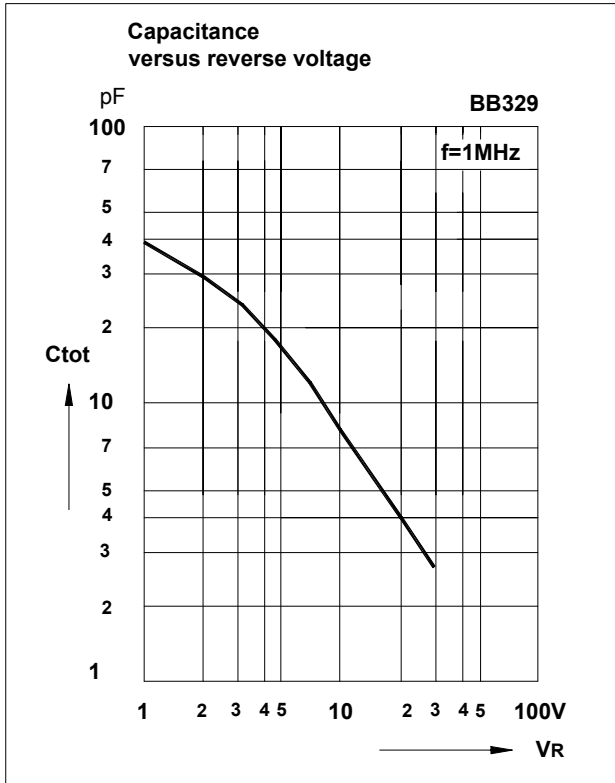
ISO 14001
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ISO 9001 : 2000
Certificate No. 250-159-04-002-04

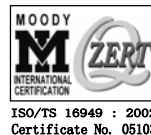
Dated : 12/12/2003

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