

BB629

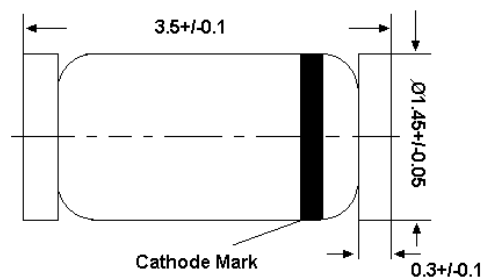
TUNER DIODE

Silicon Epitaxial Planar Capacitance Diodes in MiniMELF case. Especially suited for automatic insertion with very wide effective capacitance variation 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.

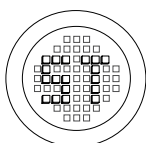
Details see "Taping".



**Glass case MiniMELF
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	$^\circ\text{C}$



®

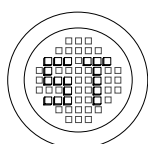
РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

BB629

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 $V_R = 28\text{V}$	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	-	Ω
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	-	2	-	GHz
Series Inductance	L_s	-	2	-	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.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



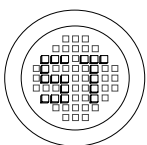
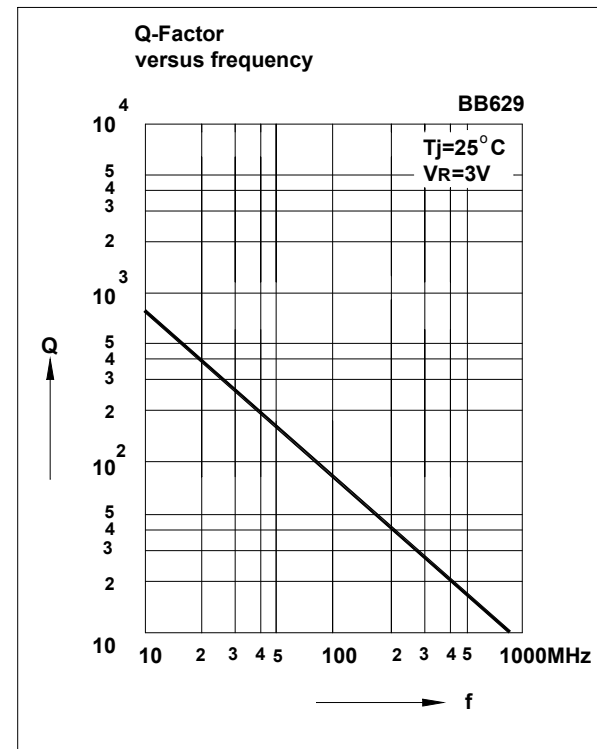
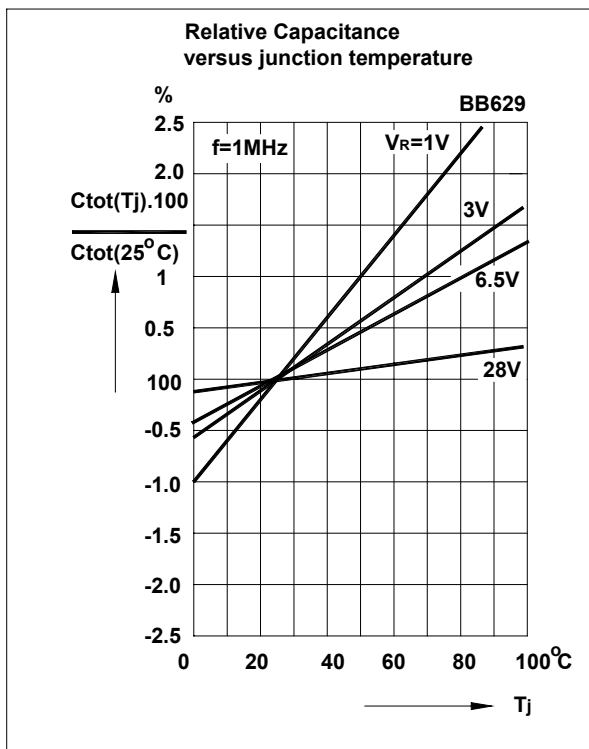
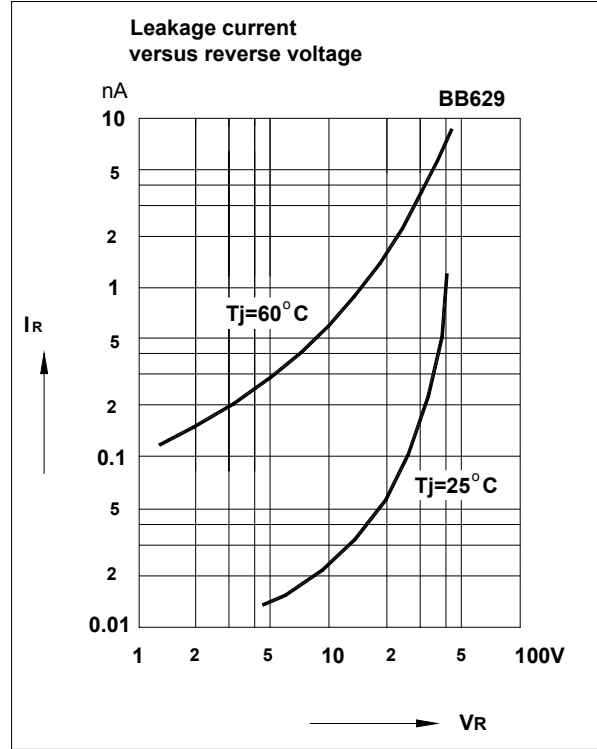
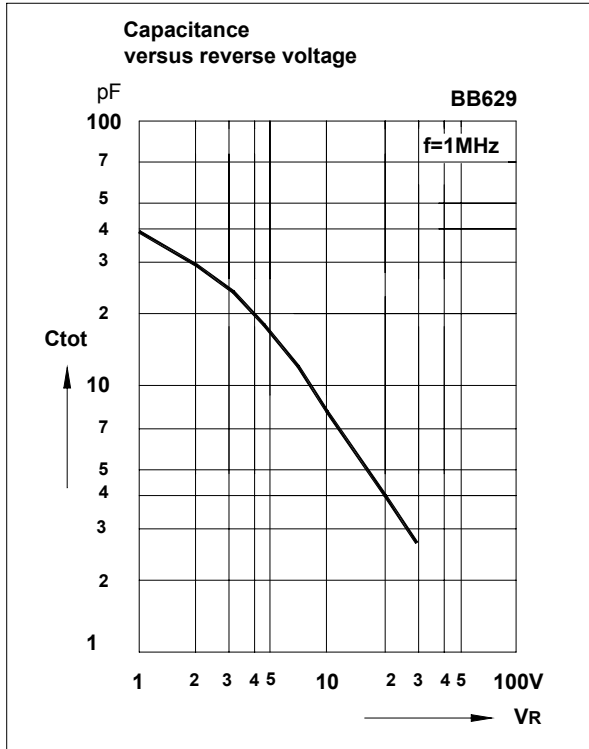
ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 07/02/2003

BB629



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

®



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 07/02/2003