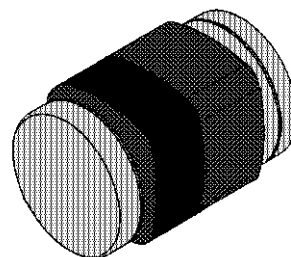


BB621R, BB622R

TUNER DIODES

Silicon Epitaxial Planar Capacitance Diodes in MicroMELF case. Especially suited for automatic insertion with very wide effective capacitance variation for tuning the whole range of VHF or UHF television bands.

LS-31



These diodes are available as singles or as matched sets of two or more units according to the tracking condition described below.

The diodes are delivered taped.

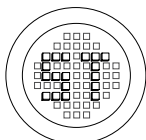
Details see "Taping".

Features

- Fits onto SOD 323 / SOT 23 footprints
- Micro Melf package

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	$^{\circ}\text{C}$



®

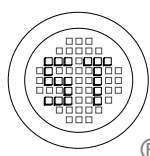
РАДИОТЕХ

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

BB621R, BB622R

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

	Symbol	Min.	Typ.	Max.	Unit
Leakage Current at $V_R = 30\text{V}$	I_R	-	-	30	nA
Capacitance at $V_R = 1\text{V}$	C_{tot}	-	17	-	pF
at $V_R = 3\text{V}$	C_{tot}	-	11	-	pF
at $V_R = 28\text{V}$	BB621R C_{tot}	1.8	-	2.2	pF
	BB622R C_{tot}	1.8	-	2.5	pF
Effective Capacitance Ratio at $V_R = 1$ to 28V	BB621R $\frac{C_{\text{tot}}(1\text{V})}{C_{\text{tot}}(28\text{V})}$	8	-	9.5	-
	BB622R $\frac{C_{\text{tot}}(1\text{V})}{C_{\text{tot}}(28\text{V})}$	7.3	-	9.5	-
Series Resistance at $f = 470\text{MHz}$, $C_{\text{tot}} = 9\text{pF}$	BB621R r_s	-	0.55	0.7	Ω
	BB622R r_s	-	0.8	1	Ω
Cutoff Frequency for $Q = 1$ at $V_R = 3\text{V}$	BB621R f_{Q1}	-	24	-	GHz
	BB622R f_{Q1}	-	16	-	GHz
Series Resonance Frequency at $V_R = 25\text{V}$	f_0	-	2.5	-	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



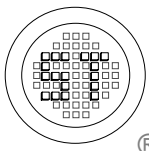
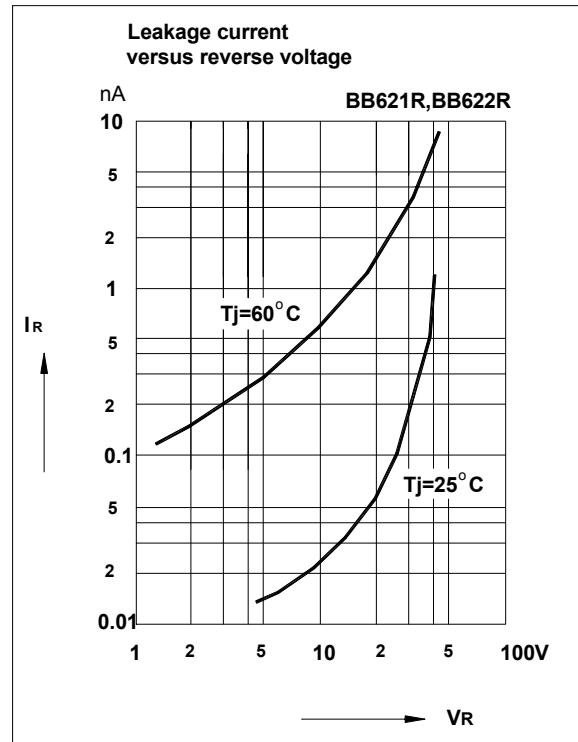
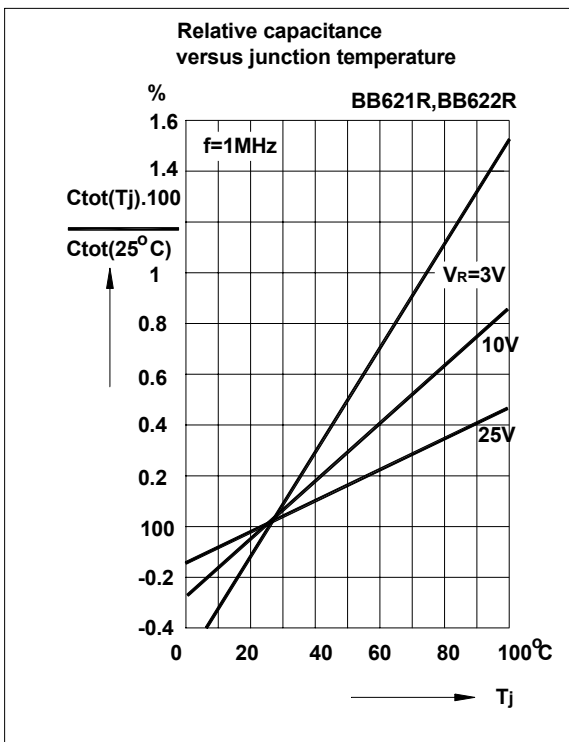
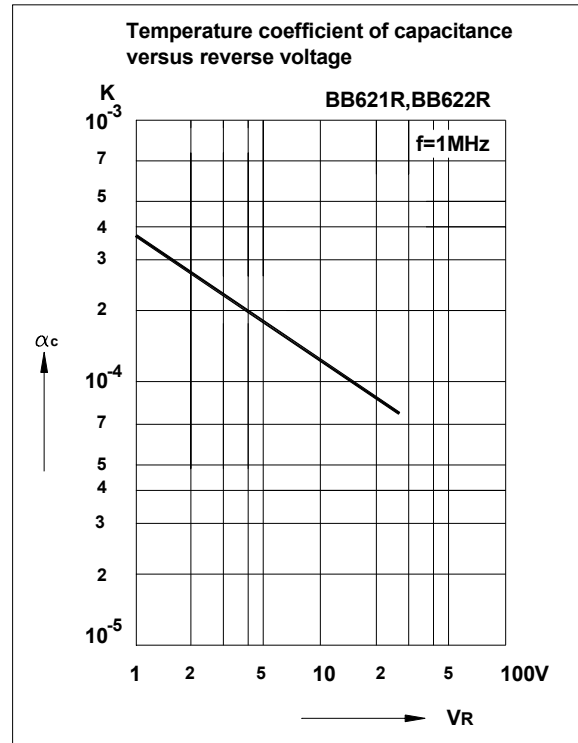
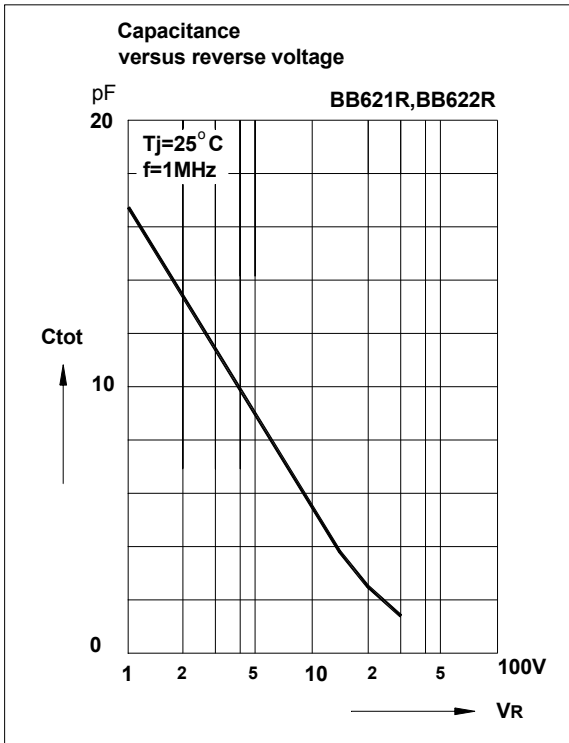
ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 250-159-01-02-04

Dated : 07/02/2003

BB621R, BB622R



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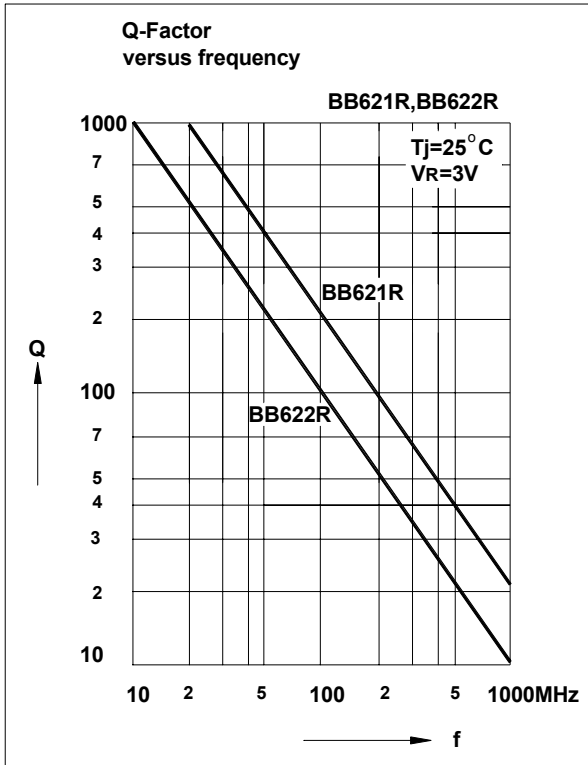
ISO 14001
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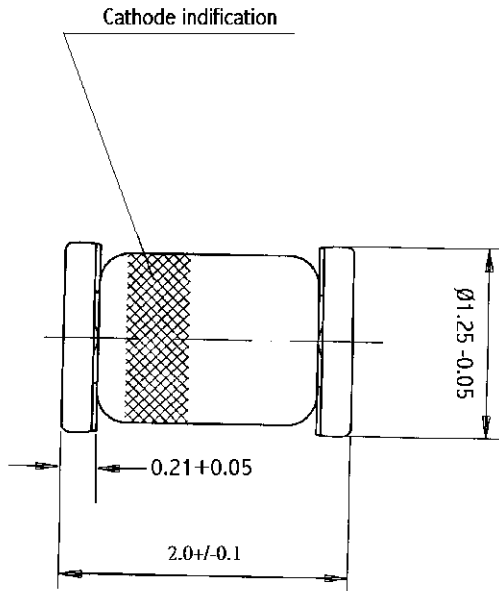
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Dated : 07/02/2003

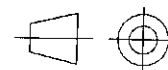
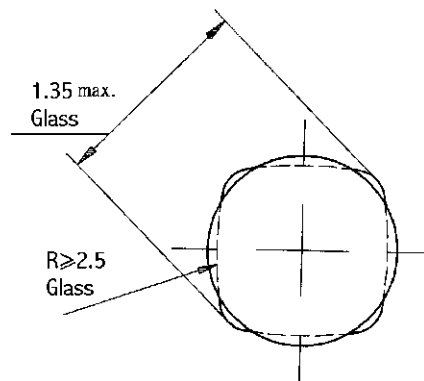
BB621R, BB622R



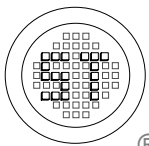
Dimensions in mm



Glass case
Micro MELF



technical drawings
according to DIN
specifications



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 550-1559-04-002-04

Dated : 07/02/2003