

BB621, BB622

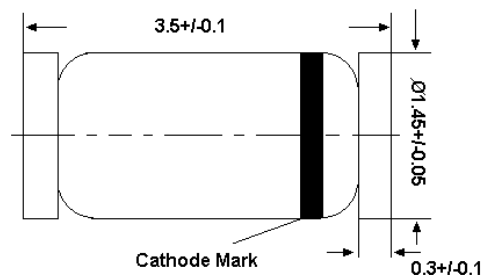
TUNER DIODES

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

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".

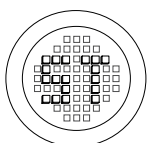
LL-34



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



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РАДИОТЕХ

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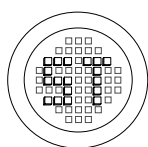
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Characteristics at $T_j = 25^\circ\text{C}$

		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 $V_R = 28\text{V}$	BB621	C_{tot}	1.8	-	2.2	pF
	BB622	C_{tot}	1.8	-	2.5	pF
Effective Capacitance Ratio at $V_R = 1$ to 28V	BB621	$\frac{C_{\text{tot}}(1\text{V})}{C_{\text{tot}}(28\text{V})}$	8	-	9.5	-
	BB622	$\frac{C_{\text{tot}}(1\text{V})}{C_{\text{tot}}(28\text{V})}$	7.3	-	9.5	-
Series Resistance at $f = 470\text{MHz}$, $C_{\text{tot}} = 9\text{pF}$	BB621	r_s	-	0.55	0.7	Ω
	BB622	r_s	-	0.8	1	Ω
Cutoff Frequency for $Q = 1$ at $V_R = 3\text{V}$	BB621	f_{Q1}	-	24	-	GHz
	BB622	f_{Q1}	-	16	-	GHz
Series Resonance Frequency at $V_R = 25\text{V}$		f_o	-	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%.



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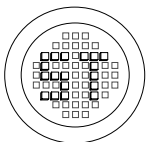
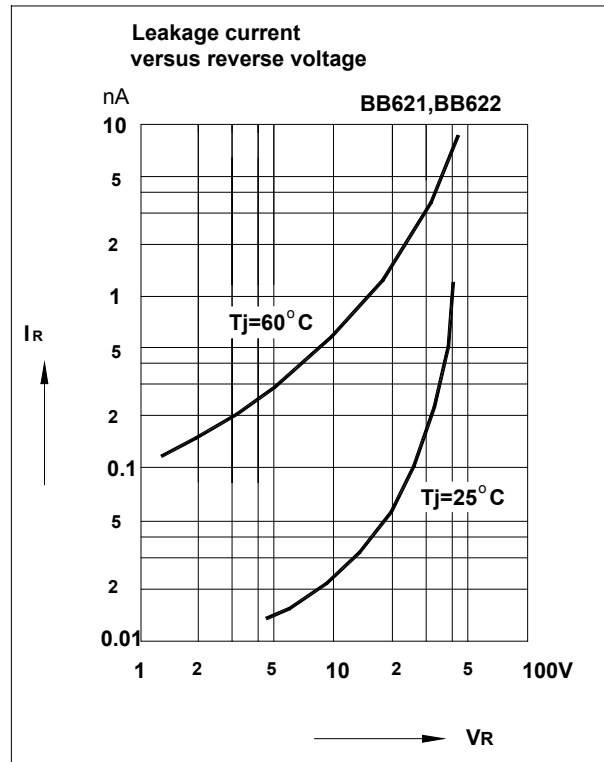
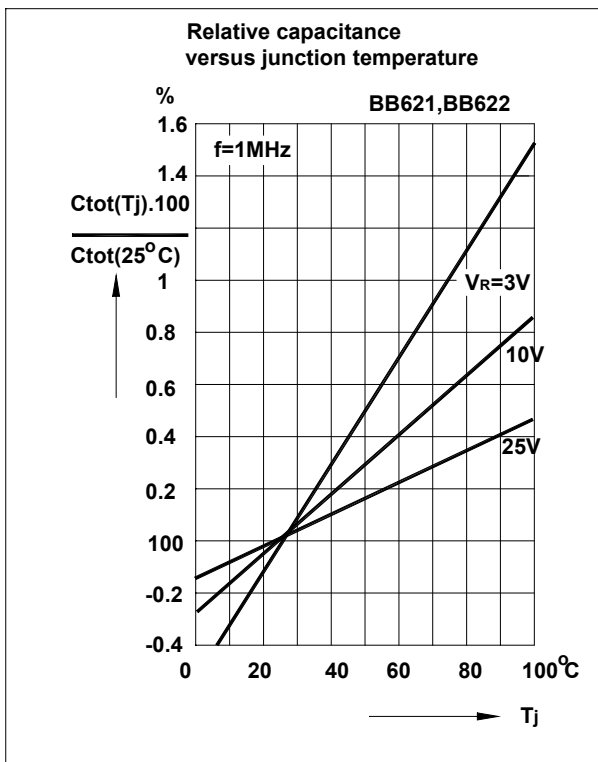
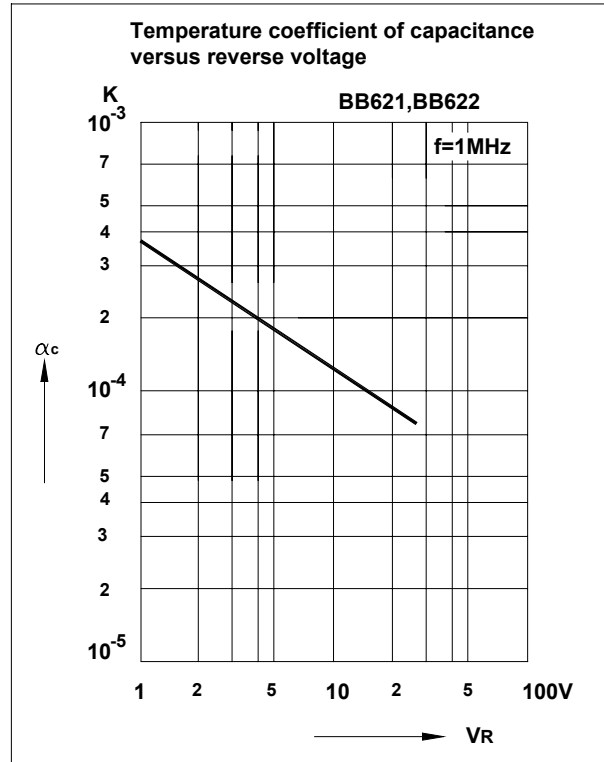
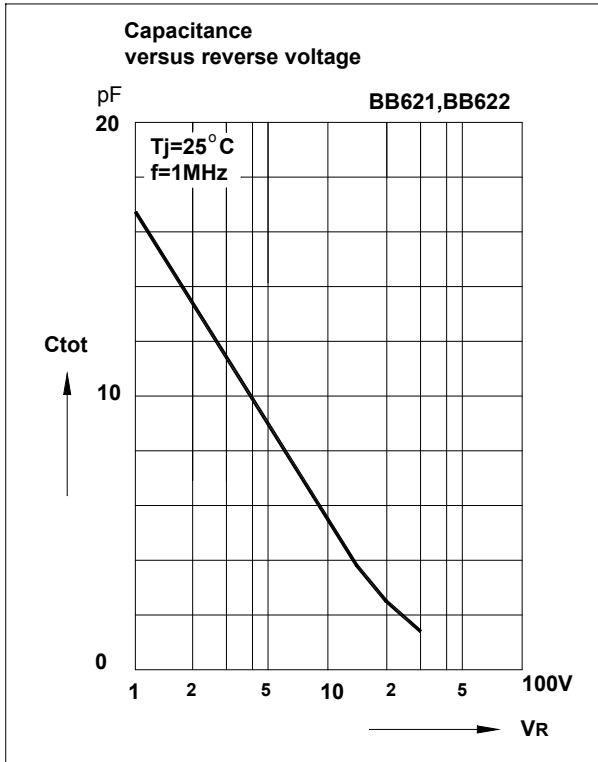
ISO 14001:2004
Certificate No. 71116



ISO 9001:2000
Certificate No. 0506098

Dated : 07/02/2003

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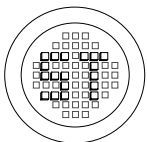
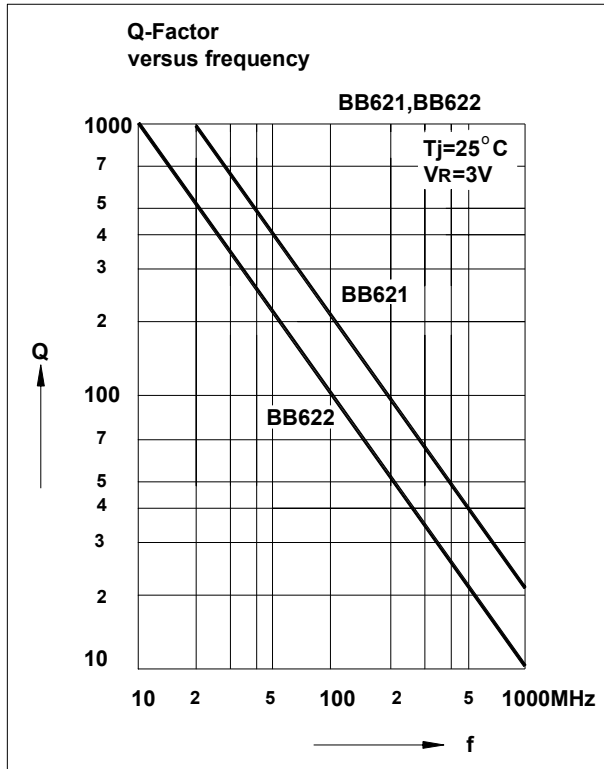
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