

RF/Microwave Devices

RF Diodes Variable Capacitance Diodes

Type	Package Outline	C_d (pF)	@ V_R (V)	Tuning Range			r_s max (Ω)	matched sets $\Delta \frac{C_{max}}{C_{min}} < 3\%$
				C_d over ratio	voltage range V_1 to V_2 (V)			
Automatic frequency control								
BB119	DO-35	15.3-19.0	10	>1.3	4	10	1.5	no
BB417	DO-34	2.2-2.4	15	2-5	4	15	1.2	no
AM radio tuning								
BB112	SOD-69	17-29	8.5	>18	1	8.5	1.5	yes
BB130	SOD-69	12-21	28	>23	1	28	2	yes
BB212 ¹⁾	TO-92	<22	8.0	>22.5	0.5	8	2.5	no
FM radio tuning								
BB204B ¹⁾	TO-92	typ. 14.0	30	2.5-2.8	3	30	0.4	no
BB804 ¹⁾	SOT-23	42-47.5	8	1.65-1.75	2	8	typ.0.25	no
VHF tuning								
BB219	SOD-80C	2.6-3.2	28	12-15	1	28	0.9	yes
BB240	SOD-80C	2.3-2.7	28	>14	0.5	28	1.0	yes
BB241	SOD-80C	2.6-3.0	28	>21	0.5	28	2.0	yes
BB249	SOD-80C	4.0-5.0	28	8-10	1	28	0.6	yes
BB619	SOD-123	2.4-2.9	28	>12.5	1	28	typ. 0.7	yes
BB620	SOD-123	2.9-3.4	28	19.5-25	1	28	typ. 1.3	yes
BB809	DO-34	4.0-5.0	28	8-10	1	28	0.6	yes
BB909A	DO-34	2.6-3.0	28	12-15	1	28	0.9	yes
BB909B	DO-34	2.8-3.2	28	12-15	1	28	0.9	yes
BB910	DO-34	2.3-2.7	28	>14	0.5	28	1.0	yes
BB911	DO-34	2.6-3.0	28	>21	0.5	28	2.0	yes
BBY40	SOT-23	3.8-4.8	28	8-12	1	28	0.7	no
BBY42	SOT-23	2.4-3.0	28	12-16	1	28	1.0	no
UHF tuning								
BB215	SOD-80C	1.8-2.2	28	>7.6	1	28	typ. 0.63	yes
BB405B	DO-34	1.8-2.2	28	>7.6	1	28	0.75	yes
BBY31	SOT-23	1.8-2.8	25	typ. 9.7	1	28	1.2	no
BBY62 ¹⁾	SOT-143	1.8-2.8	28	9.7	1	28	1.2	no
BB515	SOD-123	1.85-2.25	28	8-9.6	1	28	typ. 0.5	yes
SHF/SAT-TV tuning								
BBY39 ²⁾	SOT-23	1.6-2.0	28	>8.0	1	28	1.2	no
BB811	SOD-123	0.85-1.2	28	7.8-9.5	1	28	typ. 1.0	yes

¹⁾ double diode ²⁾ common cathode double diode