

RF/Microwave Devices

Small Signal Field-Effect Transistors MOSFETS

These are for applications in the VHF and UHF ranges, primarily in RF input stages, mixers and VHF and UHF amplifiers. All our MOSFETs are available in both conventional and surface-mount execution, allowing circuit designers to satisfy a whole range of design criteria. Their principal features are their low input capacitance, high transfer conductance and low noise.

Type Number	Package Outline	Ratings		Characteristics							Remarks
		V_{DS} (V)	I_D (mA)	I_{DSS}		$-V_{(P)G1-S}$ max (V)	Y_{fs} @ 1 kHz min (mS)	C_{is} typ (pF)	C_{os} typ (pF)	F typ (dB)	
				min (mA)	max (mA)						
DUAL-GATE N-CHANNEL MOSFETS											
BF960	SOT-103	20	20	2	20	2.7	9.5	1.8	0.9	2.8	UHF
BF964S	SOT-103	20	30	4	20	2.5	15	2.5	1.0	1.0	VHF
BF965	SOT-103	20	30	2	20	2.5	15	2.5	1.0	1.0	VHF
BF966S	SOT-103	20	30	4	20	2.5	15	2.3	0.8	1.8	UHF
BF980A	SOT-103	18	30	-	-	1.3	18	2.6	1.1	2.0	UHF
BF981	SOT-103	20	20	4	25	2.5	10	2.1	1.1	1.0	VHF
BF982	SOT-103	20	40	-	-	1.3	20	4.0	2.0	1.2	VHF
BF988	SOT-103	12	30	2	18	2.5	24 ¹⁾	2.1	1.05	1.0	VHF/UHF
BF989	SOT-143	20	20	2	20	2.7	9.5	1.8	0.9	2.8	UHF
BF990A	SOT-143	18	30	-	-	1.3	18	2.6	1.1	2.0	UHF
BF991	SOT-143	20	20	4	25	2.5	10	2.1	1.1	0.7	VHF
BF992	SOT-143	20	40	-	-	1.3	20	4.0	2.0	1.2	VHF
BF994S	SOT-143	20	30	4	20	2.5	15	2.5	1.0	1.0	VHF
BF996S	SOT-143	20	30	4	20	2.5	15	2.3	0.8	1.8	UHF
BF997	SOT-143	20	30	2	20	2.5	15	2.5	1.0	1.0	VHF
BF998	SOT-143	12	30	2	18	2.5	24 ¹⁾	2.1	1.05	1.0	VHF/UHF

¹⁾ typical value

Tuner Transistors

Type No.	Pkg.	Ratings			Characteristics				
		V_{CEO} (V)	I_C (mA)	P_{tot} (mW)	f_T (MHz)	F (dB)	@ f (MHz)	G_{UM} (dB)	@ f (MHz)
NPN									
BF496	TO-92	20	20	300	300	-	-	-	-
BF498	TO-92	20	20	300	550	2.5	200	30	100
BF747	SOT-23	20	50	150	1200	4.5	100	20	100
BF748	TO-92	20	50	500	1200	4.5	100	20	100
BFG67	SOT-143	10	50	300	7500	2.5	2000	11	2000
BFG67X	SOT-143	10	50	300	7500	2.5	2000	11	2000
BFG67XR	SOT-143R	10	50	300	7500	2.5	2000	11	2000
BFR92A	SOT-23	15	25	300	5000	1.8	800	15.5	800
BFR93A	SOT-23	12	35	300	5000	1.6	800	14	800
BFS17	SOT-23	15	50	300	1300	4.5	500	-	-
BFS17A	SOT-23	15	25	300	2800	2.5	800	13.5	800

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