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Discrete Semiconductors

FET's For VHF Amplifiers and Mixers

Type No.	Case	Pol	IGSS max. nA	Vp max. V	Ciss max. pF	Crss max. pF	Yfs min. µmho	Yfs min. MHz	Gps min. dB	Gps min. MHz	NF max. dB	NF max. MHz
2N3823	TO72	N	0.5	8	6	2	3200	200			2.5	100
2N4416	TO72	N	0.1	6	4	0.8	4000	400	10	400	4	400
2N4416A	TO72	N	0.1	6	4	0.8	4000	10	400	400	4	400
2N5549	TO18	N	0.25	6	8	2	6000					

For Low Noise Amplifiers

Type No.	Case	Pol	BV_{DGO} min. V	I_{GSS} max. nA	I_{DSS} min. mA	Yfs min. µmho	Vp max. V	Ciss max. pF	Crss max. pF	en @ 10Hz max. nV/ Hz
BFW54	TO72	N	50	0.1	2	3000	6	6	3	100
BFW55	TO72	N	50	0.1	2	3000	6	6	3	40
BFW56	TO72	N	50	0.1	2	3000	6	6	3	20

Dual Gate Mosfets (N Channel Depletion)

Type No.	BVDS V	VP max. V	Yfs min.-max. mmho	Crss max. pF	GPS min. dB	GPS @ MHz	N.F. max. dB	N.F. @ MHz	Notes
3N201	25	5	8–20	0.03	15	200	4.5	200	R.F. Amplifier } for VHF
3N202	25	5	8–20	0.03	15	200	—		Mixer } for VHF
3N203	25	5	7–15	0.03	20	45	6	45	I.F. Amplifier } for VHF
3N203A	25	5	7–15	0.03	15	200	4.5	200	I.F. Amplifier } for VHF
3N204	25	4	10–22	0.03	14	450	5	450	R.F. Amplifier } for VHF
3N205	25	4	10–22	0.03	17	200	—		Mixer } for VHF
3N206	25	4	7–17	0.03	25	45	4	45	I.F. Amplifier } for VHF
3N211	27	5.5	17–40	0.05	24	200	3.5	200	R.F. Amplifier } for VHF/UHF
3N212	27	4	17–40	0.05	21	200	—		Mixer } for VHF/UHF
3N213	35	5.5	15–35	0.05	27	45	4	45	I.F. Amplifier } for VHF/UHF
3N225	20	4	6–15	0.03	10	900	7	900	I.F. Amplifier/Mixer } for UHF
3N225A	20	3	7.5–15	0.03	14	900	5.5	900	R.F. Amplifier } for UHF

Case Outline TO72.

Low Leakage/Noise Current

Type No.	Case	Pol.	IGS max. pA	in typ. $nV.Hz^{-\frac{1}{2}}$	Yfs min. mS	IDSS min. mA	CISS max. pF	en-100kHz max. $nV.Hz^{-\frac{1}{2}}$
BF800	TO-72	N	0.5	3×10^{-16}	0.25	0.3	—	—
BF801	TO-72	N	1.0	4×10^{-16}	0.25	0.3	—	—
BF802	TO-72	N	5.0	8×10^{-16}	0.25	0.3	—	—
BF803	TO-72	N	0.5	3×10^{-16}	0.25	0.3	1.8	12.0
BF804	TO-72	N	0.5	3×10^{-16}	0.25	0.3	1.8	12.0
BF805	TO-72	N	2.0	6×10^{-16}	3.0	3.0	3.5	2.4
BF806	TO-72	N	5.0	10^{-15}	3.0	3.0	3.5	2.8

Low Leakage

Type No.	Case	Pol	BVGSS min. V	IGSS max. pA	IDSS min. µA	Yfs min. µS	Vp max. V	CISS max. pF
E8517	TO-72	N	40	10	30	70	1.8	2.0
E8517A	TO-72	N	40	1.0	30	70	1.8	2.0
E8518	TO-72	N	40	10	80	80	3.0	2.0
E8518A	TO-72	N	40	1.0	80	80	3.0	2.0
E8519	TO-72	N	40	10	200	100	6.0	2.0
E8519A	TO-72	N	40	1.0	200	100	6.0	2.0