

RF SMALL-SIGNAL TRANSISTORS (continued)

Class C Amplifiers

The transistors listed in these tables are specified for operation in Class C RF power amplifier circuits. The tables are arranged by increasing frequency of operation first, then by increasing output power.

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Class C Amplifiers

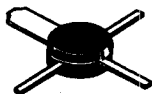
Device Type	Frequency (MHz)	P _{in} (w)	P _{out} (w)	G _{pe} dB	Voltage (V)	Case Outline
MRF229	90	0.15	1.5	10.0	12.5	TO-39
MRF604	175	0.1	1.0	10.0	12.5	TO-46
2N4427	175	0.1	1.0	10.0	12.5	TO-39
MRF553	175	0.1	1.5	11.5	12.5	317D-01
MRF607	175	0.12	1.75	11.5	12.5	TO-39
2N6255	175	0.5	3.0	7.8	12.5	TO-39
2N3553	175	0.25	2.5	10.0	28.0	TO-39
MRF237*	175	0.25	4.0	12.0	12.5	TO-39
MRF207	220	0.15	1.0	8.2	12.5	TO-39
MRF227*	225	0.13	3.0	13.5	12.5	TO-39
MRF525*	400	0.001	0.02	13.0	26.0	TO-39
2N3866	400	0.1	1.0	10.0	28.0	TO-39
2N5160†	400	0.16	1.0	8.0	28.0	TO-39
MRF313	400	0.03	1.0	15.0	28.0	305A-1
2N3948	400	0.25	1.0	6.0	13.6	TO-39
MRF515	470	0.12	0.75	8.0	12.5	TO-39
MRF581	470	0.05	1.2	13.8	12.5	317-1
MRF629*	470	0.32	2.0	8.0	12.5	TO-39
MRF627	470	0.05	0.5	10.0	12.5	305A-1
MRF628	470	0.05	0.5	10.0	12.5	249-5
MRF630	470	0.25	3.0	10.8	12.5	TO-39
MRF559	870	0.063	0.5	9.0	12.5	317-1
MRF837	870	0.125	0.75	8.0	12.5	317-01
MRF581	870	0.12	1.0	9.2	12.5	317-1
MRF557	870	0.25	1.5	8.0	12.5	317D-01

*Grounded Emitter TO-39

†PNP

RF PRODUCTS — BIPOLAR POWER TRANSISTORS (continued)

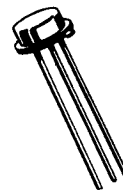
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CASE 317D-01



CASE 316-01



CASE 26-03
TO-206AB
(TO-46)

VHF Applications (continued)

136–174 MHz, High-Band/VHF FM Transistors

The “workhorse” VHF FM High-Band is served by Motorola with the broadest range of devices and package combinations in the industry.

Device	P _{out} Output Power Watts	P _{in} Input Power Watts	G _{PE} Power Gain dB Min	V _{CC} Supply Voltage Volts	Package
2N4427	1.0	0.1	10	12	TO-205AD
MRF604	1.0	0.1	10	12.5	TO-206AB
MRF553	1.5	0.1	11.5	12.5	317D-01
MRF607	1.75	0.12	11.5	12.5	TO-205AD
2N6255	3.0	0.5	7.8	12.5	TO-205AD
MRF237*	4.0	0.25	12	12.5	79-03
2N6080	4.0	0.25	12	12.5	145A-09
MRF260	5.0	0.5	10	12.5	TO-220AB
MRF261	10	3.0	5.2	12.5	TO-220AB
MRF212	10	1.25	9.0	12.5	145A-09
2N6081	15	3.5	6.3	12.5	145A-09
MRF262	15	3.5	6.3	12.5	TO-220AB
MRF2628#	15	1.0	12	12.5	244-04
2N6082	25	6.0	6.2	12.5	145A-09
2N6083	30	8.1	5.7	12.5	145A-09
MRF264	30	9.1	5.2	12.5	TO-220AB
MRF1946/A# @	30	3.0	10	12.5	211-07
2N6084	40	14.3	4.5	12.5	145A-09
MRF224	40	14.3	4.5	12.5	211-07
MRF4070**	70	20	5.0	12.5	316-01
MRF247**	75	15	7.0	12.5	316-01
2N5589	3.0	0.44	8.2	13.6	144B-05
2N5590	10	3.0	5.2	13.6	145A-09
2N5591	25	9.0	4.4	13.6	145A-09
MRF238	30	3.7	9.0	13.6	145A-09
MRF239	30	3.0	10	13.6	145A-09
MRF240	40	5.0	9.0	13.6	145A-09

Characterized for operation over 136–220 MHz Band

@ A Version in case 145A-09

MRF207	1.0	0.15	8.2	12.5	TO-205AD
MRF227*	3.0	0.13	13.5	12.5	79-03
MRF208	10	1.0	10	12.5	145A-09

*Grounded Emitter CASE 79-03 (TO-205 Type)

**Internal Impedance Matched