

SMALL SIGNAL TRANSISTORS

TRANSISTORS FOR RADIO FREQUENCY APPLICATIONS

Polar.	Max ratings			Type	Main function	Trans. Freq.		Noise figure			Gain		Package
	V _{CEO} (V)	I _C (mA)	P _{tot} (mW)			f _T (MHz)	I _C (mA)	NF (dB)	I _C (mA)	f (MHz)	P _G (dB)	f (MHz)	
PNP	35	20		BFR 38	VHF/UHF amplifier	1000	3	3.5	3	800	14	800	TO 72
PNP	35	20	200	BF 272A	UHF amp.	850	3	3.5	3	800	15	800	TO 72
NPN	25	25	175	BF 173	Video IF amp	1000 typ	5	—	—	—	25 typ	35	TO 72
NPN	15	40	200	2N 2857	VHF/UHF amplifier/osc	1200	5	3.8	1.5	450	16	450	TO 72
NPN	15	40	200	2N 3839	VHF/UHF amplifier/osc	1400	5	3	1.5	450	17	450	TO 72
NPN	12	50	200	2N 5179	VHF amplifier/osc	1400	5	3	1.5	200	21	200	TO 72
NPN	15	50	200	BFX 89	UHF amplifier	1200	25	5	2	500	12	500	TO 72
PNP	25	50	225	BFR 99A	UHF amplifier	1400	10	5	3	800	10	800	TO 72
PNP	25	50	225	BFR 99	UHF amplifier	2000	10	3.5	3	800	12	800	TO 72
NPN	25	150	700	BFW 16A	CATV-MATV amplifier	1200	150	6	30	200	6.5	800	TO 39
NPN	25	150	700	BFX 17A	CATV-MATV amplifier	1100	150	—	—	—	16	200	TO 39
NPN	20	500	3500	2N 4427	VHF power amp.	500	50	—	—	—	10	175	TO 39
NPN	30	500	3500	2N 3866	UHF/VHF power amp.	500	50	—	—	—	10	400	TO 39

NPN GENERAL PURPOSE TRANSISTORS - TO 18

V _{CEO} V _{CER} * (V)	h _{FE} min/max @	I _C (mA)	Type	V _{CE(sat)} max (V)	I _C (mA)	f _T min (MHz)	t _s (ns)	P _{tot} (mW)	Also available
55	50/—	50	BSX 33	0.3	150	60	800	500	
25	75/260	100	BC 377	0.7	500	300 typ.	—	375	
40	75/260	100	BC 378	0.7	500	300 typ.	—	375	
30	100/300	150	2N 2222	1.6	500	250	225	500	2N 2221
40	100/300	150	2N 2222A	1	500	250	225	500	2N 2221A
50*	100/300	150	2N 956	1.5	150	70	—	500	2N 718A
55	60/180	150	BFR 18	0.25	150	60	—	500	
80	40/—	150	2N 720A	5	150	50	—	500	
80	100/300	150	2N 3700	0.5	500	100 typ.	—	500	2N 3302