

TABLE 1: NPN GENERAL PURPOSE

The devices shown in this table are general purpose transistors designed for small signal amplification from d.c. to radio frequencies. Typical application areas include: AUDIO FREQUENCY AMPLIFIERS, DRIVERS and OUTPUT STAGES, OSCILLATORS, AND GENERAL PURPOSE SWITCHES.

Type	V _{CB0} V	V _{CEO} V	Max I _C mA	Max V _{CE(sat)} at			h _{FE} at			Min f _T at		P _{tot} at T _{amb} = 25°C mW	Complement
				V	I _C mA	I _B mA	Min	Max	I _C mA	MHz	I _C mA		
BC546P	80	65	200	0.25	10	0.5	75	200	2	300*	10	500	BC556P
ZTX304	70	70	500	0.35	50	5	50	300	10	150	10	300	ZTX504
BC182P	60	50	200	0.25	10	0.5	100	480	2	150	10	300	BC212P
ZTX107	60	50	100	0.1*	10	1	125	500	2	350*	10	300	ZTX212
BC547P	50	45	200	0.25	10	0.5	75	450	2	300*	10	500	BC557P
BC107P	50	45	200	0.2	10	0.5	120	460	2	150	10	300	BC177P
BC237P	50	45	200	0.2	10	0.5	120	460	2	150	10	300	BC307P
ZTX237	50	45	200	0.25	10	0.5	120	460	2	150	10	300	ZTX212
ZTX303	45	45	500	0.35	50	5	50	300	10	150	10	300	ZTX503
ZTX238	45	30	200	0.25	10	0.5	120	800	2	150	10	350	ZTX213
BC183P	45	30	200	0.25	10	0.5	100	850	2	150	10	300	BC213P
ZTX108	45	30	100	0.1*	10	1	125	900	2	350*	10	300	ZTX213
ZTX302	35	35	500	0.25	50	5	100	300	10	150	10	300	ZTX502
ZTX301	35	35	500	0.25	50	5	50	300	10	150	10	300	ZTX501
BC548P	30	30	200	0.25	10	0.5	75	800	2	300*	10	500	BC558P
BC108P	30	20	200	0.2	10	0.5	120	800	2	150	10	300	BC178P
BC238P	30	20	200	0.2	10	0.5	120	800	2	150	10	300	BC308P
ZTX300	25	25	500	0.35	10	1	50	300	10	150	10	300	ZTX500
MPSA20	—	40	100	0.25	10	1	40	400	5	125	5	500	—

*Typical

TABLE 7 : NPN/PNP MEDIUM POWER

The transistors shown in this table have been designed to operate and provide useful gain at current levels up to 1 amp with power dissipation capabilities of 1000 mW at 25°C ambient temperature. Typical application areas include: Audio Frequency Drivers and Output Stages, Relay Switching, etc.

Type	V _{CBO} V	V _{CEO} V	Max I _c mA	Max V _{CE(sat)} at			h _{FE} at			Min f _T at		P _{tot} at T _{amb} = 25°C mW	Complement
				V	I _c mA	I _B mA	Min	Max	I _c mA	MHz	I _c mA		
NPN													
ZTX455§	160	140	1000	0.7	150	15	100	300	150	100	50	1000	ZTX555
ZTX454	140	120	1000	0.7	150	15	100	300	150	100	50	1000	ZTX554
ZTX453§	120	100	1000	0.7	150	15	40	200	150	150	50	1000	ZTX553
ZTX452	100	80	1000	0.7	150	15	40	150	150	150	50	1000	ZTX552
MPSA06	80	80	500	0.25	100	10	50	—	100	100	10	750	MPSA56
ZTX451§	80	60	1000	0.35	150	15	50	150	150	150	50	1000	ZTX551
BFS61	80	60	1000	0.35	150	15	40	160	150	150	50	500	BFS98
MPSA05	60	60	500	0.25	100	10	50	—	100	100	10	750	MPSA55
ZTX450§	60	45	1000	0.25	150	15	100	300	150	50	50	1000	ZTX550
BFS60	60	40	1000	0.25	150	15	100	300	150	150	50	500	BFS97
BFS59	60	30	1000	0.35	150	15	40	300	150	150	50	500	BFS96
ZTX337	50	45	800	0.7	500	50	100	630	100	200*	10	750	ZTX537
BC337P	50	45	800	0.7	500	50	100	630	100	100	10	625	BC327P
ZTX449§	50	30	1000	0.5	1000	100	100	300	500	150	50	1000	ZTX549
ZTX338	30	25	800	0.7	500	50	100	630	100	200*	10	750	ZTX538
BC338P	30	25	800	0.7	500	50	100	630	100	100	10	625	BC328P
PNP													
ZTX557§	300	300	500	0.3	50	5	50	300	50	75	50	1000	—
ZTX556	200	200	500	0.3	50	5	50	300	50	75	50	1000	—
ZTX555§	160	150	1000	0.3	100	10	50	300	300	100	50	1000	ZTX455
ZTX554	140	125	1000	0.3	100	10	50	300	300	100	50	1000	ZTX454
ZTX553§	120	100	1000	0.7	150	15	40	200	150	150	50	1000	ZTX453
ZTX552	100	80	1000	0.7	150	15	40	150	150	150	50	1000	ZTX452
MPSA56	80	80	500	0.25	100	10	50	—	100	100	10	750	MPSA06
ZTX551§	80	60	1000	0.35	150	15	50	150	150	150	50	1000	ZTX451
BFS98	80	60	1000	0.35	150	15	40	160	150	150	50	500	BFS61
MPSA55	60	60	500	0.25	100	10	50	—	100	100	10	750	MPSA05
ZTX550§	60	45	1000	0.25	150	15	100	300	150	150	50	1000	ZTX450
BFS97	60	40	1000	0.265	150	15	100	300	150	150	50	500	BFS61
BFS96	60	30	1000	0.35	150	165	40	300	150	150	50	500	BFS59
ZTX537	50	45	800	0.7	500	50	100	630	100	200*	10	750	ZTX337
BC327P	50	45	800	0.7	500	50	100	630	100	100	10	625	BC337P
ZTX549§	35	25	1000	0.5	1000	100	100	300	500	100	100	1000	ZTX449
ZTX538	30	25	800	0.7	500	50	100	630	100	200*	10	750	ZTX338
BC328P	30	25	800	0.7	500	50	100	630	100	100	10	625	BC338P

* Typical.

§ Also available with centre collector lead form option. See centre collector section for details.