

NPN GENERAL PURPOSE

TABLE 1 – continued

Type	V _{CE30} 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		
MPS3704 ZTX3704	50	30	800	0.6	100	5	100	300	50	100	50	500	{ MPS3703 ZTX3703
MPS3705 ZTX3705													
MPS6532	50	30	600	0.5	100	10	30	—	100	390	50	500	MPS6535
ZTX303	45	45	500	0.35	50	5	50	300	10	150	10	300	ZTX503
BCY59P	45	45	200	0.35	10	0.25	120	630	2	125	10	1000†	BCY79P
MPS3693	45	45	50	—	—	—	40	160	10	200	10	500	—
ZTX238	45	30	200	0.25	10	0.5	120	800	2	150	10	350	ZTX213
ZTX383	45	30	200	0.25	10	0.5	100	850	2	150	10	350	—
ZTX384	45	30	200	0.25	10	0.5	250	—	2	150	10	350	—
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
2N4123	40	30	200	0.3	50	5	50	150	2	250	10	500	2N4125
MPS3706 ZTX3706	40	20	800	1	100	5	30	600	50	100	50	500	{ MPS3702 ZTX3702
ZTX302													
ZTX301	35	35	500	0.25	50	5	50	300	10	150	10	300	ZTX501
BCY58P	32	32	200	0.35	10	0.25	120	630	2	125	10	1000†	BCY78P
BC548P	30	30	200	0.25	10	0.5	75	800	2	300*	10	500	BC558P
MPS3709 ZTX3709	30	30	200	1	10	0.5	45	165	1	—	—	500	—
MPS3710 ZTX3710													
MPS3711 ZTX3711	30	30	200	1	10	0.5	180	660	1	—	—	500	—
MPS3708 ZTX3708													
2N4124	30	25	200	0.3	50	5	120	360	2	300	10	500	2N4126
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
MPS3414	25	25	500	0.3	50	3	75	225	2	—	—	500	—
MPS3415	25	25	500	0.3	50	3	180	540	2	—	—	500	—
ZTX300	25	25	500	0.35	10	1	50	300	10	150	10	300	ZTX500
MPS5172	25	25	100	0.25	10	1	100	500	10	120*	2	500	—
MPS3394	25	25	100	—	—	—	55	110	2	—	—	500	—
MPS2923	25	25	100	—	—	—	90	180	2	—	—	500	—
MPS3393	25	25	100	—	—	—	90	180	2	—	—	500	—
MPS2924	25	25	100	—	—	—	150	300	2	—	—	500	—
MPS3392	25	25	100	—	—	—	150	300	2	—	—	500	—
MPS2925	25	25	100	—	—	—	235	470	2	—	—	500	—
MPS3395	25	25	100	—	—	—	150	500	2	—	—	500	—
MPS2711	18	18	100	—	—	—	30	90	2.5	—	—	500	—
MPS2712	18	18	100	—	—	—	75	225	2.5	—	—	500	—
MPSA20	—	40	100	0.25	10	1	40	400	5	125	5	500	—

*Typical †at T_{case} = 45°C

PNP GENERAL PURPOSE

TABLE 2 – PNP SILICON PLANAR GENERAL PURPOSE TRANSISTORS

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

The transistors are listed in order of decreasing breakdown voltages (V_{CB0} and V_{CE0}), then order of decreasing collector current (I_C), power dissipation (P_{tot}) etc.

Type	V_{CB0} V	V_{CE0} V	Max I_C mA	Max $V_{CE(sat)}$ at			h_{FE} at			Min f_T at		P_{tot} at $T_{amb} = 25^\circ C$ mW	Complement
				I_C mA	I_B mA	Min	Max	I_C mA	MHz	I_C mA			
MPSA56	80	80	500	0.25	100	10	50	—	100	100	10	750	MPSA06
BC556P	80	65	200	0.25	10	0.5	75	450	2	150*	10	500	BC546P
ZTX551	80	60	1000	0.25	150	15	50	150	150	150	50	1000	ZTX451
BFS98	80	60	1000	0.35	150	15	40	160	150	150	50	500	BFS61
ZTX504	70	70	500	0.6	50	5	50	300	10	150	10	300	ZTX304
MPS2907A	60	60	600	1.6	500	50	100	300	150	200	50	500	MPS2222A
MPSA55	60	60	500	0.25	100	10	50	—	100	100	10	750	MPSA05
BCY77P	60	60	100	0.25	10	0.25	120	460	2	180*	10	1000†	BCY65EP
ZTX212	60	50	200	0.25	10	0.5	60	400	2	200	10	500	ZTX107
BC212P	60	50	200	0.6	100	5	60	400	2	200	10	300	BC182P
ZTX550	60	45	1000	0.25	150	15	100	300	150	150	50	1000	ZTX450
BFS97	60	40	1000	0.25	150	15	100	300	150	50	150	500	BFS60
MPS2907	60	40	600	1.6	500	50	100	300	150	200	50	500	MPS2222
BFS96	60	30	1000	0.35	150	15	40	300	150	150	50	500	BFS59
BC557P	50	45	200	0.25	10	0.5	75	450	2	150*	10	500	BC547P
BC177P	50	45	200	0.2	10	0.5	120	460	2	130	10	300	BC107P
BC307P	50	45	200	0.2	10	0.5	120	460	2	130*	10	300	BC237P
MPS3703 } ZTX3703 }	50	30	500	0.25	50	5	30	150	50	100	50	500	MPS3704 ZTX3704 MPS3705 ZTX3705
ZTX503	45	45	500	0.35	50	5	50	300	10	150	10	300	ZTX303

*Typical †at $T_{case} = 45^\circ C$

Continued on Page 11