

# MEDIUM POWER

**TABLE 7 – NPN/PNP SILICON PLANAR MEDIUM POWER TRANSISTORS**

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 in excess of 500 mW at 25°C ambient temperature.

Typical application areas include: Audio Frequency Drivers and Output Stages, Relay Switching, etc.

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

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 $T_{amb} = 25^\circ C$ mW	Complement	
				$I_C$ mA	$I_B$ mA	Min	Max	$I_C$ mA	MHz	$I_C$ mA			
<b><u>NPN</u></b>													
ZTX453	120	100	1000	0.7	150	15	40	200	150	150	50	1000	—
ZTX452	100	80	1000	0.7	150	15	40	150	150	150	50	1000	—
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
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
ZTX337	50	45	1000	0.7	500	50	100	630	100	200*	10	750	ZTX537
BC337P	50	45	1000	0.7	500	50	100	630	100	100	10	625	BC327P
ZTX338	30	25	1000	0.7	500	50	100	630	100	200*	10	750	ZTX538
BC338P	30	25	1000	0.7	500	50	100	630	100	100	10	625	BC328P
<b><u>PNP</u></b>													
MPSA56	80	80	500	0.25	100	10	50	—	100	100	10	750	MPSA06
ZTX551	80	60	1000	0.25	150	15	50	150	150	150	50	1000	ZTX451
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
ZTX537	50	45	1000	0.7	500	50	100	630	100	200*	10	750	ZTX337
BC327P	50	45	1000	0.7	500	50	100	630	100	100	10	625	BC337P
ZTX538	30	25	1000	0.7	500	50	100	630	100	200*	10	750	ZTX338
BC328P	30	25	1000	0.7	500	50	100	630	100	100	10	625	BC338P

\*Typical