

# NPN LOW NOISE

**TABLE 6 - NPN SILICON PLANAR LOW NOISE TRANSISTORS**

The transistors shown in this table are characterised for low noise, low level amplification and are particularly suitable for audio pre-amplifiers as well as universal applications.

The devices are listed in order of decreasing Breakdown Voltage ( $V_{CE0}$ ), decreasing Collector Current ( $I_C$ ), Power Dissipation ( $P_{tot}$ ), etc.

Type	$V_{CE0}$ V	Max $I_C$ mA	Max $V_{CE(sat)}$ at			$h_{FE}$ at			$f_T$ Min at		Noise Figure at			Package	Comple- ment
			V	$I_C$ mA	$I_B$ mA	Min.	Max.	$I_C$ mA	MHz	$I_C$ mA	N dB	$I_C$ $\mu A$	f Hz		
ZT91	100	1000	1.2	200	20	40	120	200	60	50	6	300	1K	TO-39	-
ZT92	100	1000	1.2	200	20	65	200	200	60	50	6	300	1K	TO-39	-
ZT93	80	1000	0.5	150	15	40	120	150	60	50	6	300	1K	TO-39	-
ZT86	80	500	0.2	50	5	38	85	10	200	10	<6	100	1K	TO-18	-
ZT88	80	500	0.2	50	5	75	170	10	200	10	<6	100	1K	TO-18	-
ZT89	70	500	0.2	50	5	75	250	10	200	10	<6	100	1K	TO-18	ZT189
ZT90	60	1000	0.7	200	20	60	200	200	60	50	6	300	1K	TO-39	ZT211
ZT95	60	1000	1.2	200	20	30	200	350	60	50	6	300	1K	TO-39	ZT211
BCY65E	60	100	0.35	10	0.25	120	460	2	125	10	<6	200	1K	TO-18	BCY77
2N2484	60	50	0.35	1	0.1	100	500	0.01	-	-	<3	200	1K	TO-18	-
ZT94	45	1000	0.7	200	20	20	-	10	60	50	6	300	1K	TO-39	ZT210
ZT83	45	500	0.2	50	5	38	85	10	200	10	<6	100	1K	TO-18	ZT183
ZT84	45	500	0.2	50	5	75	170	10	200	10	<6	100	1K	TO-18	ZT184
BCY59	45	200	0.35	10	0.25	120	630	2	125	10	<6	200	1K	TO-18	BCY79
2N929	45	30	1	10	0.5	40	120	0.01	-	-	<4	10	1K	TO-18	-
2N930	45	30	1	10	0.5	100	300	0.01	-	-	<4	10	1K	TO-18	-
2N2219A	40	800	0.3	150	15	100	300	150	300	20	<4	100	1K	TO-39	2N2905A
2N2222A	40	800	0.3	150	15	100	300	150	300	20	<4	100	1K	TO-18	2N2907A
ZT81	35	500	0.2	10	2	38	162	10	200	10	<6	100	1K	TO-18	ZT181
ZT82	35	500	0.2	10	2	75	250	10	200	10	<6	100	1K	TO-18	ZT182
BCY58	32	200	0.35	10	0.25	120	630	2	125	10	<6	200	1K	TO-18	BCY78
ZT80	25	500	0.2	10	2	38	162	10	200	10	<6	100	1K	TO-18	ZT180
ZT87	25	500	0.2	10	2	75	250	10	200	10	<6	100	1K	TO-18	ZT187
BC109	20	50	0.2	10	0.5	180	800	2	150	10	<4	200	30-15K	TO-18	BC179