

# TRANSISTORS—SMALL SIGNAL

## NPN GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING $V_{CE0}$ )

### PLASTIC PACKAGE

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	$V_{CE0}$ ( $V_{CER}$ ) VOLTS	$h_{FE}$ ( $h_{fe}$ ) $h_{FE}$ @ $I_C$ MIN-MAX mA		$V_{CE}$ (sat) VOLTS @ $I_C$ MAX mA		$C_{ob}$ pF MAX	$f_T$ MHz MIN	$t_{off}$ ns MAX	$P_D$ $T_A$ 25°C $T_C$ 25°C mW W		PNP Package Complement	
	MIN	MIN-MAX	@ $I_C$ mA	MAX	mA	MAX	MIN	MAX	25°C	25°C	Package	Complement
2N5128	12	35-350	@ 50	0.25 @ 150	10.0	200	200		300	0.7	TO-105	2N5142
2N5129	12	35-350	@ 50	0.25 @ 150	10.0	200	200		200	0.5	TO-106	2N5143
2N5219	15	35-500	@ 2	0.40 @ 2	4.0	150	150		310		TO-92	2N3221
2N5131	15	30-500	@ 10	1.00 @ 10	6.0	100	100		200	0.5	TO-106	2N5139
2N5220	15	30-600	@ 50	0.50 @ 50	10.0	100	100		310		TO-92	2N5226
MPS2712	18	75-225	@ 2		4.0				625	1.0	TO-92	2N4126
MPS2711	18	30-90	@ 2		4.0				625	1.0	TO-92	2N4125
2N5223	20	50-800	@ 2	0.70 @ 2	4.0	150	150		310		TO-92	2N5227
SE2002	20	100-400	@ 10	0.70 @ 10	6.0	200	200		200	0.5	TO-106	2N4122
SE2001	20	40-160	@ 10	0.70 @ 10	6.0	200	200		200	0.5	TO-106	2N4121
2N5132	20	30-400	@ 10	2.00 @ 10	3.5	200	200		200	0.5	TO-106	2N4121
MPS3706	20	30-600	@ 50	1.00 @ 50	12.0	100	100		625	1.0	TO-92	MPS3702
2N5136	20	20-400	@ 150	0.25 @ 150	35.0	40	40		220	0.6	TO-105	2N5142
2N5137	20	20-400	@ 150	0.25 @ 150	35.0	40	40		220	0.6	TO-106	2N5143
MPS6561	20	50-200	@ 350	0.50 @ 150	30.0	60	60		625	1.0	TO-92	MPS6563
MPS6515	25	250-500	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6519
MPS2925	25	(235-470)	@ 2		12.0				625	1.0	TO-92	2N4126
MPS3392	25	150-300	@ 2		3.5				625	1.0	TO-92	2N4126
MPS6514	25	150-300	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6518
MPS2924	25	(150-300)	@ 2		12.0				625	1.0	TO-92	2N4126
MPS3395	25	150-500	@ 2		3.5				625	1.0	TO-92	2N4126
<b>2N4124</b>	25	120-360	@ 2	0.30 @ 2	4.0	300	300		310		TO-92	2N4126
MPS3393	25	90-180	@ 2		3.5				625	1.0	TO-92	2N4126
MPS2923	25	(90-180)	@ 2		12.0				625	1.0	TO-92	2N4126
MPS3721	25	60-660	@ 2		3.5				625	1.0	TO-92	2N4125
MPS3394	25	55-110	@ 2		3.5				625	1.0	TO-92	2N4125
MPS2926	25	(35-470)	@ 2		3.5				625	1.0	TO-92	2N4125
2N3692	25	100-400	@ 10	0.70 @ 10	6.0	200	200		200	0.5	TO-106	2N4122
MPS5172	25	100-500	@ 10	0.25 @ 10	12.0				625	1.0	TO-92	2N4126
EN916	25	50-200	@ 10	0.50 @ 10	6.0	300	300		200	0.5	TO-106	2N4121
2N5135	25	50-600	@ 10	1.00 @ 100	25.0	40	40		300	0.8	TO-105	2N5142
2N3691	25	40-160	@ 10	0.70 @ 10	6.0	200	200		200	0.5	TO-106	2N4121
2N5225	25	30-600	@ 50	0.80 @ 50	20.0	50	50		310		TO-92	2N5226
MPS6560	25	50-200	@ 500	0.50 @ 500	30.0	60	60		625	1.0	TO-92	MPS6562
MPS6513	30	90-180	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6517
MPS6512	30	50-100	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6516
<b>2N4123</b>	30	50-150	@ 2	0.30 @ 2	4.0	250	250		310		TO-92	2N4125
2N3566	30	50-160	@ 10	1.00 @ 100	25.0	40	40		300	0.8	TO-105	2N3638A
MPS3704	30	100-300	@ 50	0.60 @ 50	12.0	100	100		625	1.0	TO-92	2N4403
MPS3705	30	50-150	@ 50	0.80 @ 50	12.0	100	100		625	1.0	TO-92	2N4402
MPS6532	30	30	@ 100	0.50 @ 100	5.0				625	1.0	TO-92	MPS6535M
<b>2N3643</b>	30	100-300	@ 150	0.22 @ 150	8.0	250	250		350	0.7	TO-105	2N3638A
2N4437	30	100-300	@ 150	0.22 @ 150	8.0	250	150	200	200	0.5	TO-106	EN2907
EN2219	30	100-300	@ 150	0.40 @ 150	8.0	250	250		200	0.5	TO-105	EN2905
EN2222	30	100-300	@ 150	0.40 @ 150	8.0	250	250		200	0.5	TO-106	EN2907
2N4970	30	100-350	@ 150	0.40 @ 150	8.0	200	440	200	200	0.5	TO-106	EN2907

Preferred devices in bold type.