

CASE TO-61
 $I_{C(MAX)} = 5 \text{ to } 20A$
 $V_{CEO(SUS)} = 40-300V$

NPN Power Transistors

Type No.	V_{CEO} (sus) (V)	I_C (max) (A)	$h_{FE} @ I_C/V_{CE}$ (min-max @ A/V)	$V_{CE(SAT)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	$V_{BE(SAT)}$ @ I_C/I_B (V @ A/V)	$I_{CEV} @ V_{CE}$ (mA @ V)	$P_D @$ $T_C = 25^\circ C$ (Watts)	$I_{srb} @ V_{CE}$ $t = 1 \text{ sec}$ (A @ V)	f_T (MHz)	$t_{on} @ I_C/I_B$ (μs @ A/A)	$t_{OFF} @ I_C/I_B$ (μs @ A/A)
2N1724	80	5	20-90 @ 2/15	1 @ 2/2		2 @ 2/2	10 ⁴ @ 120	50	1.25 @ 40	10	.3' @ 5/5	1.5' @ 5/5
2N1724A	120	5	30-90 @ 2/15	.6 @ 2/2		1.2 @ 2/2	10 ⁴ @ 180	50	1.25 @ 40	10	.3' @ 5/5	1.5' @ 5/5
2N1725	80	5	50-150 @ 2/15	1 @ 2/2		2 @ 2/2	10 ⁴ @ 120	50	1.25 @ 40	10	.3' @ 5/5	1.5' @ 5/5
2N2811	50	10	20-60 @ 5/5	.5 @ 5/5		1.2 @ 5/5	.01 @ 80	40	1.25' @ 40	15	.3' @ 5/5	1.5' @ 5/5
2N2812	50	10	40-120 @ 5/5	.5 @ 5/5		1.2 @ 5/5	.01 @ 80	40	1.25 @ 40	15	.3' @ 5/5	1.5' @ 5/5
2N2813	70	10	20-60 @ 5/5	.5 @ 5/5		1.2 @ 5/5	.01 @ 120	40	1.25' @ 40	15	.3' @ 5/5	1.5' @ 5/5
2N2814	70	10	40-120 @ 5/5	.5 @ 5/5		1.2 @ 5/5	.01 @ 120	40	1.25' @ 40	15	.3' @ 5/5	1.5' @ 5/5
2N3487	60	7.5	20-60 @ 3/5	1.2 @ 3/3	1.5 @ 3/5		.1' @ 80	67	7.5 @ 15.6	10	.35 @ 5/5	2.35 @ 5/5
2N3488	80	7.5	20-60 @ 3/5	1.2 @ 3/3	1.5 @ 3/5		.1' @ 100	67	7.5 @ 15.6	10	.35 @ 5/5	2.35 @ 5/5
2N3489	100	7.5	15-45 @ 3/5	1.2 @ 3/3	1.5 @ 3/5		.1' @ 120	67	7.5 @ 15.6	10	.35 @ 5/5	2.35 @ 5/5
2N3490	60	7.5	40-120 @ 5/5	1.5 @ 5/5	1.4 @ 5/5		.1' @ 80	67	7.5 @ 15.6	10	.35 @ 5/5	2.35 @ 5/5
2N3491	80	7.5	40-120 @ 5/5	1.5 @ 5/5	1.4 @ 5/5		.1' @ 100	67	7.5 @ 15.6	10	.35 @ 5/5	2.35 @ 5/5
2N3492	100	7.5	30-90 @ 5/5	1.5 @ 5/5	1.4 @ 5/5		.1' @ 120	67	7.5 @ 15.6	10	.35 @ 5/5	2.35 @ 5/5
2N3597	40	20	40-120 @ 10/2	1.5 @ 20/2	1.2 @ 10/2		.01 @ 60	100	4 @ 25	30	.7 @ 10/1	2.7 @ 10/1
2N3598	60	20	40-120 @ 10/2	1.5 @ 20/2	1.2 @ 10/2		.1 @ 80	100	4 @ 25	30	.7 @ 10/1	2.7 @ 10/1
2N3599	80	20	40-120 @ 10/2	1.5 @ 20/2	1.2 @ 10/2		.01 @ 100	100	4 @ 25	30	.7 @ 10/1	2.7 @ 10/1
2N4301	80	10	30-120 @ 5/4	.4 @ 5/5	1.2 @ 10/4		.01' @ 90	50	3 @ 16.7	40	.5' @ 10/1	1.5' @ 10/1
2N5048	100	10	15-60 @ 10/4	2 @ 10/1		3 @ 10/1	1' @ 120	50	1 @ 50	10	.6 @ 10/1.5	2.1 @ 10/1.5
2N5049	50	10	15-60 @ 10/4	2.5 @ 10/1		3 @ 10/1	10' @ 60	50	1 @ 50	10	1 @ 10/1.5	3.5 @ 10/1.5
2N5218	200	10	15-120 @ 5/5	.6 @ 5/5	1.2 @ 5/5		.01 @ 220	50	1.43 @ 35	40	.6 @ 1/1	5.5 @ 1/1
2N5313	80	10	30-90 @ 10/5	1.5 @ 10/1		1.5 @ 10/1	.01 @ 80	50	2.5 @ 20	30	.5 @ 10/1	1.5 @ 10/1
2N5315	100	10	30-90 @ 10/5	1.5 @ 10/1		1.5 @ 10/1	.01 @ 100	50	2.5 @ 20	30	.5 @ 10/1	1.5 @ 10/1
2N5387	200	7.5	25-100 @ 2/5	2.2 @ 7/1.4	2.5 @ 7/5		1' @ 180	100	5 @ 20	15	1.5' @ 5/5	3' @ 5/5
2N5388	250	7.5	25-100 @ 2/5	2.2 @ 7/1.4	2.5 @ 7/5		1' @ 225	100	5 @ 20	15	1.5' @ 5/5	3' @ 5/5
2N5389	300	7.5	25-100 @ 2/5	2.2 @ 7/1.4	2.5 @ 7/5		1 @ 270	100	2 @ 20	15	1.5' @ 5/5	3' @ 5/5
2N5540	300	10	20-60 @ 5/5	1 @ 8/8		1.2 @ 5/5	.1 @ 325	50	.83 @ 60	20	1.5 @ 5/5	3 @ 5/15
2N5542	130	10	30-90 @ 5/5	.5 @ 5/5		1.2 @ 5/5	.01 @ 175	50	5 @ 10	20	.5 @ 5/5	2 @ 5/5
2N5959	100	20	30-120 @ 10/10	.4 @ 5/5		2 @ 20/2	.5' @ 100	100	4 @ 25	10	.5 @ 20/2	1 @ 20/2
2N6562	450	10	10-40 @ 5/2	.75 @ 5/1		1.4 @ 5/1	1 @ 450	125	2.8 @ 45	10	.6 @ 5/1	3 @ 5/1
2N6563	300	10	10-50 @ 10/2	.75 @ 10/2		1.8 @ 10/2	1 @ 300	100	2 @ 50	15	.6 @ 5/1	1.7 @ 5/1
2N6585	350	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 5/1	.5 @ 450	125	.09 @ 200	12.5	.55 @ 5/1	2.5 @ 5/1
2N6586	400	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 5/1	.5 @ 500	125	.09 @ 200	12.5	.55 @ 5/1	2.5 @ 5/1
2N6587	450	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 5/1	.5 @ 550	125	.09 @ 200	12.5	.55 @ 5/1	2.5 @ 5/1
2N6588	350	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 7/1.4	.5 @ 450	125	.09 @ 200	12.5	.55 @ 7/1.4	2.5 @ 7/1.4
2N6589	400	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 7/1.4	.5 @ 500	125	.09 @ 200	12.5	.55 @ 7/1.4	2.5 @ 7/1.4
2N6590	450	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 7/1.4	.5 @ 550	125	.09 @ 200	12.5	.55 @ 7/1.4	2.5 @ 7/1.4
2N6689	300	15	>8 @ 10/2	1 @ 10/2		1.5 @ 10/2	.1 @ 450	175	5' @ 20	15	.7 @ 10/2	3 @ 10/1
2N6690	400	15	>8 @ 10/2	1 @ 10/2		1.5 @ 10/2	.1 @ 650	175	5' @ 20	15	.7 @ 10/2	3 @ 10/1
2N6691	300	15	>8 @ 15/3	1 @ 15/3		1.5 @ 15/3	.1 @ 450	175	5' @ 20	15	.7 @ 15/3	3 @ 15/3
2N6692	350	15	>8 @ 15/3	1 @ 15/3		1.5 @ 15/3	.1 @ 550	175	5' @ 20	15	.7 @ 15/3	3 @ 15/3
2N6693	400	15	>8 @ 15/3	1 @ 15/3		1.5 @ 15/3	.1 @ 650	175	5' @ 20	15	.7 @ 15/3	3 @ 15/3

NOTES: b) $I_{CBO} @ V_{CB}$ (mA @ V) g) $I_{CES} @ V_{CE}$ (mA @ V) h) (typical)