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NPN Power Transistors

ISOLATED COLLECTOR

CASE TO-61

 $I_{C(MAX)} = 10-20A$ $V_{CEO(SUS)} = 80-100V$

Type No.	V_{CEO} (max) (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)	$V_{BE(SAT)}$ @ I_C/I_B (V @ A/V)	$I_{CEV @ V_{CE}}$ (mA @ V)	$P_D @$ $T_C = 100^\circ C$ (Watts)	$I_{a/b @ V_{CE}}$ $t = 1 \text{ sec}$ (A @ V)	f_r (MHz)	$t_{on @ I_C/I_B}$ (μs @ A/A)	$t_{OFF @ I_C/I_B}$ (μs @ A/A)
2N5006	80	10	30-90 @ 5/5	1.5 @ 10/1	1.8 @ 5/5	1 ^a @ 100	67	3.1 @ 32	30	.3 @ 5/5	1.5 @ 5/5
2N5008	80	10	70-200 @ 5/5	1.5 @ 10/1	1.8 @ 5/5	1 ^a @ 100	67	3.1 @ 32	40	.3 @ 5/5	1.5 @ 5/5
2N5288	100	10	30-90 @ 5/5	1.5 @ 10/1	1.8 @ 5/5	1 ^a @ 120	67	3.1 @ 32	30	.3 @ 5/5	1.5 @ 5/5
2N5289	100	10	70-200 @ 5/5	1.5 @ 10/1	1.8 @ 5/5	1 ^a @ 120	67	3.1 @ 32	30	.3 @ 5/5	1.5 @ 5/5
2N5317	80	10	30-90 @ 5/5	.6 @ 5/5	1.2 @ 5/5	.01 @ 80	50	2.5 @ 20	30	.4 @ 5/5	1.6 @ 5/5
2N5319	100	10	30-90 @ 5/5	.6 @ 5/4	1.2 @ 5/5	.01 @ 100	50	2.5 @ 20	30	.4 @ 5/5	1.6 @ 5/5
2N5731	80	20	30-300 @ 5/2	1.2 @ 10/1	1.5 @ 10/1	1 ^a @ 100	50	4 @ 25	30	.3 @ 5/5	3.6 @ 5/5
2N5957	100	20	30-120 @ 10/10	.4 @ 5/5	2 @ 20/2	.5 ^a @ 100	100	4 @ 25	10	.5 @ 20/2	1 @ 20/2
2N6128	80	10	30-120 @ 5/5	.9 @ 5/5	2.2 ^a @ 10/5	1 ^a @ 100	67	2.96 @ 35	50	.3 @ 5/5	1.5 @ 5/5

NOTES: b) $I_{CBO} @ V_{CB}$ (mA @ V) g) $I_{CES} @ V_{CE}$ (V @ A/V) k) $V_{BE} @ I_C/V_{CE}$ (V @ A/V) r) (typical)

CASE TO-111

 $I_{C(MAX)} = 3-10A$ $V_{CEO(SUS)} = 30-250V$

ISOLATED COLLECTOR

Type No.	V_{CEO} (max) (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)	$V_{BE(SAT)}$ @ I_C/I_B (V @ A/V)	$I_{CEV @ V_{CE}}$ (mA @ V)	$P_D @$ $T_C = 100^\circ C$ (Watts)	$I_{a/b @ V_{CE}}$ $t = 1 \text{ sec}$ (A @ V)	f_r (MHz)	$t_{on @ I_C/I_B}$ (μs @ A/A)	$t_{OFF @ I_C/I_B}$ (μs @ A/A)
2N3744	30	5	20-60 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 80	30	3 @ 10	30	.3 @ 1/1	1.5 @ 1/1
2N3745	50	5	20-60 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 80	30	3 @ 10	30	.3 @ 1/1	1.5 @ 1/1
2N3746	70	5	20-60 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 100	30	3 @ 10	30	.3 @ 1/1	1.5 @ 1/1
2N3747	30	5	40-120 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 60	30	3 @ 10	40	.3 @ 1/1	1.5 @ 1/1
2N3748	50	5	40-120 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 80	30	3 @ 10	40	.3 @ 1/1	1.5 @ 1/1
2N3749	70	5	40-120 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 100	30	3 @ 10	40	.3 @ 1/1	1.5 @ 1/1
2N3750	30	5	100-300 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 60	30	3 @ 10	50	.3 @ 1/1	1.5 @ 1/1
2N3751	50	5	100-300 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 80	30	3 @ 10	50	.3 @ 1/1	1.5 @ 1/1
2N3752	70	5	100-300 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 100	30	3 @ 10	50	.3 @ 1/1	1.5 @ 1/1
2N3996	80	5	40-120 @ 1/2	2 @ 5/5	.6-1.2 @ 1/1	.005 ^a @ 90	30	1.5 @ 20	40	.3 @ 1/1	1.5 @ 1/1
2N3997	80	5	80-240 @ 1/2	2 @ 5/5	.6-1.2 @ 1/1	.005 ^a @ 90	30	1.5 @ 20	40	.3 @ 1/1	2 @ 1/1
2N4075*	80	3	30-90 @ 1/2	1 @ 2/2	1.3 @ 1/1	.1 ^a @ 100	17	3 @ 10	30	.3 @ 1/05	1.5 @ 1/05
2N4076*	80	3	50-150 @ 1/2	1 @ 2/2	1.3 @ 1/1	.1 ^a @ 100	17	3 @ 10	30	.3 @ 1/05	1.5 @ 1/05
2N4115	80	5	40-120 @ 2/5	1.5 @ 5/5	1.3 @ 2/2	.2 ^a @ 120	37	3.5 @ 10	50	.2 @ 2/2	1.5 @ 2/2
2N4116	80	5	100-300 @ 2/5	1.5 @ 5/5	1.3 @ 2/2	.2 ^a @ 120	37	3.5 @ 10	70	.2 @ 2/2	1.5 @ 2/2
2N4998	80	2	30-90 @ 1/5	.85 @ 2/2	1.2 @ 1/1	1 ^a @ 100	20	1.1 @ 32	50	.3 @ 1/05	1.5 @ 1/05
2N5000	80	2	70-200 @ 2.5/5	.85 @ 2/2	1.2 @ 1/1	1 ^a @ 100	20	1.1 @ 32	50	.3 @ 1/05	1.5 @ 1/05
2N5002	80	5	30-90 @ 2.5/5	1.5 @ 5/5	1.45 @ 2.5/25	1 ^a @ 100	33	1.8 @ 32	60	.2 @ 2/2	1.5 @ 2/2
2N5004	80	5	70-200 @ 1/5	1.5 @ 5/5	1.45 @ 2.5/25	1 ^a @ 100	33	1.8 @ 32	70	.2 @ 2/2	1.5 @ 2/2
2N5074	200	3	30-90 @ 1/5	2 @ 3/3	2 @ 3/3	.25 @ 200	40	.78 @ 90	40		
2N5075	200	3	90-250 @ 5/5	2 @ 3/3	2 @ 3/3	.25 @ 200	40	.78 @ 90	40		
2N5076	250	3	30-100 @ 5/5	2 @ 3/3	2 @ 3/3	.25 @ 250	40	.78 @ 90	40		
2N5077	250	3	90-250 @ 5/5	2 @ 3/3	2 @ 3/3	.25 @ 250	40	.78 @ 90	40		
2N5083	60	10	40-120 @ 2/2	1 @ 10/2	1.3 @ 5/5	1 ^a @ 120	20	2.7 @ 13	50	.35 @ 5/5	.65 @ 5/5
2N5084	60	10	100-300 @ 2/2	1 @ 10/2	1.3 @ 5/5	1 ^a @ 120	20	2.7 @ 13	80	.35 @ 5/5	.65 @ 5/5
2N5085	80	5	40-120 @ 2/2	1 @ 10/2	1.3 @ 5/5	1 ^a @ 150	20	2.7 @ 13	50	.35 @ 5/5	.65 @ 5/5
2N5284	100	5	30-90 @ 2.5/5	1.5 @ 5/5	1.5 @ 5/5	1 ^a @ 120	33	1.8 @ 32	60	.2 @ 2/2	1.5 @ 2/2
2N5285	100	5	70-200 @ 2.5/5	1.5 @ 5/5	1.5 @ 5/5	1 ^a @ 120	33	1.8 @ 32	70	.2 @ 2/2	1.5 @ 2/2
2N5346	80	7	30-120 @ 2/2	1.2 @ 7/7	1.2 @ 7/7	.01 ^a @ 80	34	6 @ 10	30	.2 @ 2/2	2.2 @ 2/2
2N5347	80	7	60-140 @ 2/2	1.2 @ 7/7	1.2 @ 7/7	.01 ^a @ 80	34	6 @ 10	30	.2 @ 2/2	2.2 @ 2/2
2N5348	100	7	30-120 @ 2/2	1.2 @ 7/7	1.2 @ 7/7	.01 ^a @ 100	34	6 @ 10	30	.2 @ 2/2	2.2 @ 2/2
2N5349	100	7	60-240 @ 2/2	1.2 @ 7/7	1.2 @ 7/7	.01 ^a @ 100	34	6 @ 10	30	.2 @ 2/2	2.2 @ 2/2
2N5730	80	10	30-300 @ 2/2	1.2 @ 5/5	1.2 @ 5/5	1 ^a @ 100	30		30	.2 @ 2/2	3.5 @ 2/2

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