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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 <sub>CEO</sub> (max) (V)	I <sub>C</sub> (max) (A)	h <sub>FE</sub> @I <sub>C</sub> /V <sub>CE</sub> (min-max @ A/V)	V <sub>CE(SAT)</sub> @ I <sub>C</sub> /I <sub>B</sub> (V @ A/A)	V <sub>BE (SAT)</sub> @ I <sub>C</sub> /I <sub>B</sub> (V @ A/V)	I <sub>CEV</sub> @V <sub>CE</sub> (mA @ V)	P <sub>D</sub> @ TC=100°C (Watts)	I <sub>sb</sub> @V <sub>CE</sub> t = 1 sec (A @ V)	f <sub>r</sub> (MHz)	t <sub>on</sub> @ I <sub>C</sub> /I <sub>B</sub> (μs @ A/A)	t <sub>OFF</sub> @ I <sub>C</sub> /I <sub>B</sub> (μs @ A/A)
2N5006	80	10	30-90 @ 5/5	1.5 @ 10/1	1.8 @ 5/5	1 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 100	100	4 @ 25	10	.5 @ 20/2	1 @ 20/2
2N6128	80	10	30-120 @ 5/5	.9 @ 5/5	2.2 @ 10/5	1 <sup>a</sup> @ 100	67	2.96 @ 35	50	.3 @ 5/5	1.5 @ 5/5

NOTES: b) I<sub>CBO</sub> @ V<sub>CB</sub> (mA @ V) g) I<sub>CEV</sub> @ V<sub>CE</sub> (V @ A/V) k) V<sub>BE</sub> @ I<sub>C</sub>/V<sub>CE</sub> (V @ A/V) t) (typical)

**CASE TO-111**  
 $I_{C(MAX)} = 3-10A$   
 $V_{CEO(SUS)} = 30-250V$

**ISOLATED COLLECTOR**

Type No.	V <sub>CEO</sub> (max) (V)	I <sub>C</sub> (max) (A)	h <sub>FE</sub> @I <sub>C</sub> /V <sub>CE</sub> (min-max @ A/V)	V <sub>CE(SAT)</sub> @ I <sub>C</sub> /I <sub>B</sub> (V @ A/A)	V <sub>BE (SAT)</sub> @ I <sub>C</sub> /I <sub>B</sub> (V @ A/V)	I <sub>CEV</sub> @V <sub>CE</sub> (mA @ V)	P <sub>D</sub> @ TC=100°C (Watts)	I <sub>sb</sub> @V <sub>CE</sub> t = 1 sec (A @ V)	f <sub>r</sub> (MHz)	t <sub>on</sub> @ I <sub>C</sub> /I <sub>B</sub> (μs @ A/A)	t <sub>OFF</sub> @ I <sub>C</sub> /I <sub>B</sub> (μs @ A/A)
2N3744	30	5	20-60 @ 1/5	2 @ 5/5	1.2 @ 1/1	.01 @ 60	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 @ 60	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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>a</sup> @ 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 <sup>b</sup> @ 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 <sup>b</sup> @ 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 <sup>b</sup> @ 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 <sup>b</sup> @ 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 <sup>a</sup> @ 100	30		30	.2 @ 2/2	3.5 @ 2/2

NOTES: b) I<sub>CBO</sub> @ V<sub>CB</sub> (mA @ V) g) I<sub>CEV</sub> @ V<sub>CE</sub> (mA @ V) t) (typical)