

NPN Power Transistors

ISOLATED COLLECTOR

CASE TO-61
 $I_{C(MAX)} = 10-20A$
 $V_{CEO(SUS)} = 80-100V$

Type No.	V _{CEO} (μs) (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)	ICEV @V _{CE} (mA @ V)	PD@ TC=100°C (Watts)	I _{sb} @V _{CE} t = 1 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) ICBO @ VCB (mA @ V) g) ICES @ VCE (V @ A/V) k) VBE @ IC/VCE (V @ A/V) t) (typical)

ISOLATED COLLECTOR

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

Type No.	V _{CEO} (μs) (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)	ICEV @V _{CE} (mA @ V)	PD@ TC=100°C (Watts)	I _{sb} @V _{CE} t = 1 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 @ 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 ^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) ICBO @ VCB (mA @ V) g) ICES @ VCE (mA @ V) t) (typical)