

$I_{C(MAX)} = 10-20A$
 $V_{CEO(SUS)} = 80-100V$
 $f_T = 10-50 \text{ MHz}$

T-33-01

NPN TO-61

ISOLATED COLLECTOR

Case 806

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)	$V_{BE(SAT)}$ @ I_C/I_B (V @ A/A)	I_{CEV} @ V_{CE} (mA @ V)	P_D @ $T_C = 100^\circ C$ (Watts)	I_s/b @ 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)
2N5006	80	10	30-90@5/5	1.5@10/1	1.8@5/5	1 ^a @100	67	3.1@32	30	3 ^a @5/5	1.5 ^a @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 ^a @5/5	1.5 ^a @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 ^a @5/5	1.5 ^a @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 ^a @5/5	1.5 ^a @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@5/5	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 ^a @25	30	3@5/5	3.6@5/5
2N5957	100	20	30-120@10/10	4@5/5	2@20/2	5 ^b @100	100	4@25	10	5@20/2	1@20/2
2N6128	80	10	30-120@5/5	.9@5/5	2.2 ^k @10/5	1 ^a @100	67	2.96@35	50	3 ^a @5/5	1.5 ^a @5/5

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

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

NPN TO-111

ISOLATED COLLECTOR

Case 810
Case 811

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)	$V_{BE(SAT)}$ @ I_C/I_B (V @ A/A)	I_{CEV} @ V_{CE} (mA @ V)	P_D @ $T_C = 100^\circ C$ (Watts)	I_s/b @ 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)
2N3744	30	5	20-60@1/5	2@5/5	1.2@1/1	.01@60	30	3@10	30	.3 ^a @1/1	1.5 ^a @1/1
2N3745	50	5	20-60@1/5	2@5/5	1.2@1/1	01@80	30	3@10	30	3 ^a @1/1	1.5 ^a @1/1
2N3746	70	5	20-60@1/5	2@5/5	1.2@1/1	01@100	30	3@10	30	3 ^a @1/1	1.5 ^a @1/1
2N3747	30	5	40-120@1/5	2@5/5	1.2@1/1	.01@60	30	3@10	40	3 ^a @1/1	1.5 ^a @1/1
2N3748	50	5	40-120@1/5	2@5/5	1.2@1/1	01@80	30	3@10	40	3 ^a @1/1	1.5 ^a @1/1
2N3749	70	5	40-120@1/5	2@5/5	1.2@1/1	.01@100	30	3@10	40	3 ^a @1/1	1.5 ^a @1/1
2N3750	30	5	100-300@1/5	2@5/5	1.2@1/1	01@60	30	3@10	50	3 ^a @1/1	1.5 ^a @1/1
2N3751	50	5	100-300@1/5	2@5/5	1.2@1/1	01@80	30	3@10	50	3 ^a @1/1	1.5 ^a @1/1
2N3752	70	5	100-300@1/5	2@5/5	1.2@1/1	01@100	30	3@10	50	3 ^a @1/1	1.5 ^a @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 ^a	80	3	30-90@1/2	1@2/2	1.3@1/1	1 ^b @100	17	3@10	30	3@1/05	1.5@1/05
2N4076 ^a	80	3	50-150@1/2	1@2/2	1.3@1/1	1 ^b @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 ^a @2/2	1.5 ^a @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 ^a @2/2	1.5 ^a @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 ^a @1/05	1.5 ^a @1/05
2N5000 ^a	80	2	70-200@1/5	.85@2/2	1.2@1/1	1 ^a @100	20	1.1@32	50	.3 ^a @1/05	1.5 ^a @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 ^a @2/2	1.5 ^a @2/2
2N5004	80	5	70-200@2.5/5	1.5@5/5	1.45@2.5/25	1 ^a @100	33	1.8@32	70	.2 ^a @2/2	1.5 ^a @2/2
2N5074	200	3	30-110@5/5	2@3/3	2.2@3/3	.25@200	40	.78@90	40		
2N5075	200	3	90-250@5/5	2@3/3	2.2@3/3	25@200	40	.78@90	40		
2N5076	250	3	30-110@5/5	2@3/3	2.2@3/3	25@250	40	.78@90	40		
2N5077	250	3	90-250@5/5	2@3/3	2.2@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	1.45@2.5/25	1 ^a @120	33	1.8@32	60	.2 ^a @2/2	1.5 ^a @2/2
2N5285	100	5	70-200@2.5/5	1.5@5/5	1.45@2.5/25	1 ^a @120	33	1.8@32	70	.2 ^a @2/2	1.5 ^a @2/2
2N5346	80	7	30-120@2/2	1.2@7/7	1.2@2/2	01 ^b @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@2/2	01 ^b @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@2/2	01 ^b @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@2/2	01 ^b @100	34	6@10	30	.2@2/2	2.2@2/2
2N5730	80	10	30-300@2/2	1.2@5/5	1.5@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) ^l) (typical)

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