

NPN TO-3

Case 803
Case 804

IC(MAX) = 2-50A
VCEQ(SUS) = 35-500V
fT = 0.2-50 MHz

Type No.	PNP Complement	VCE(SUS)(V)	IC(MAX)(A)	hFE @ IC/VCE (min-max @ A/V)	VCE(SAT) @ IC/IB (V @ A/A)	VBE @ IC/VCE (V @ A/V)	VBE(SAT) @ IC/IB (V @ A/A)	ICEV @ VCE (mA @ V)	Pd @ Tc = 25°C (Watts)	Is/b @ VCE t = 1 sec (A @ V)	fT (MHz)	ton @ IC/IB (μs @ A/A)	toff @ IC/IB (μs @ A/A)
2N1487		40	6	15-45 @ 1.5/4	3 @ 1.5/3	3.5 @ 1.5/4		0.25 @ 30	75	3.75 @ 20	1.0	3 @ 1/1	6 @ 1/1
2N1488		55	6	15-45 @ 1.5/4	3 @ 1.5/3	3.5 @ 1.5/4		0.25 @ 30	75	3.75 @ 20	1.0	3 @ 1/1	6 @ 1/1
2N1489		40	6	25-75 @ 1.5/4	1 @ 1.5/1	2.5 @ 1.5/4		0.25 @ 30	75	3.75 @ 20	1.0	3 @ 1/1	6 @ 1/1
2N1490		55	6	25-75 @ 1.5/4	1 @ 1.5/1	2.5 @ 1.5/4		0.25 @ 30	75	3.75 @ 20	1.0	3 @ 1/1	6 @ 1/1
2N1702		40	5	15-60 @ 8/4	3.2 @ 8/0.8	4.1 @ 8/4		20 @ 30	75	3.75 @ 20	1.0	3 @ 1/1	6 @ 1/1
2N3442		140	10	20-70 @ 3/4	1 @ 3/3	5.7 @ 10/4		5 @ 140	117	1.5 @ 78	0.8	4 @ 1/1	6 @ 1/1
2N3445		60	7.5	20-60 @ 3/5	1.5 @ 3/3	1.5 @ 3/5		1 @ 60	115	7.5 @ 15.3	10	35 @ 5/5	2.4 @ 5/5
2N3446		80	7.5	20-60 @ 3/5	1.5 @ 3/3	1.5 @ 3/5		1 @ 80	115	7.5 @ 15.3	10	35 @ 5/5	2.4 @ 5/5
2N3447		60	7.5	40-120 @ 5/5	1.5 @ 5/5	1.4 @ 5/5		1 @ 60	115	7.5 @ 15.3	10	35 @ 5/5	2.4 @ 5/5
2N3448		80	7.5	40-120 @ 5/5	1.5 @ 5/5	1.4 @ 5/5		1 @ 80	115	7.5 @ 15.3	10	35 @ 5/5	2.4 @ 5/5
2N3713	2N3789	60	10	25-90 @ 1/2	1 @ 5/5	1.5 @ 3/2		1 @ 80	150	5 @ 30	2.5	45 @ 5/5	7 @ 5/5
2N3714	2N3790	80	10	25-90 @ 1/2	1 @ 5/5	1.5 @ 3/2		1 @ 100	150	5 @ 30	2.5	45 @ 5/5	7 @ 5/5
2N3715	2N3791	60	10	50-150 @ 1/2	0.8 @ 5/5	1.5 @ 3/2		1 @ 80	150	5 @ 30	2.5	45 @ 5/5	7 @ 5/5
2N3716	2N3792	80	10	50-150 @ 1/2	0.8 @ 5/5	1.5 @ 3/2		1 @ 100	150	5 @ 30	2.5	45 @ 5/5	7 @ 5/5
2N3771		40	30	15-80 @ 15/4	2 @ 15/1.5	2.7 @ 15/4		2 @ 50	150	3.75 @ 40	0.2	5 @ 1/1	10 @ 1/1
2N3772		60	20	15-80 @ 10/4	1.4 @ 10/1	2.2 @ 10/4		5 @ 100	150	2.5 @ 60	0.2	5 @ 1/1	10 @ 1/1
2N3773		140	16	15-60 @ 8/4	1.4 @ 8/8	2.2 @ 8/4		2 @ 140	150	1.5 @ 100	0.2	6 @ 1/1	10 @ 1/1
2N3788		325	2	20-80 @ 5/5	1 @ 1.5/3		1.2 @ 1.5/3	5 @ 400	100	2 @ 50	5	5 @ 1/1	1.8 @ 1/1
2N3902		325	2.5	30-90 @ 1/5	0.8 @ 1/1		1.5 @ 1/1	2.5 @ 700	100	1.43 @ 70	2.8	5 @ 1/1	1.8 @ 1/1
2N4070		100	10	40-120 @ 5/5	6 @ 5/5	1.2 @ 5/5		0.1 @ 120	115	7.5 @ 15.3	20	5 @ 5/5	1.65 @ 5/5
2N4347		120	5	15-60 @ 2/4	1 @ 2/2	2 @ 2/4		2 @ 125	100	1.5 @ 67	0.2	4 @ 1/1	6 @ 1/1
2N4348		120	10	15-80 @ 5/4	1 @ 5/5	2 @ 5/4		2 @ 120	120	1.5 @ 80	0.2	6 @ 1/1	10 @ 1/1
2N4913	2N4904	40	5	25-100 @ 2.5/2	1.5 @ 5/1	1.5 @ 2.5/2		1 @ 40	87.5	5 @ 17.5	4	45 @ 5/5	7 @ 5/5
2N4914	2N4905	60	5	25-100 @ 5/2	1.5 @ 5/1	1.5 @ 2.5/2		1 @ 60	87.5	5 @ 17.5	4	45 @ 5/5	7 @ 5/5
2N4915	2N4906	80	5	25-100 @ 2.5/2	1.5 @ 5/1	1.5 @ 2.5/2		1 @ 80	87.5	5 @ 17.5	4	45 @ 5/5	7 @ 5/5
2N5038		90	20	20-100 @ 12/5	1 @ 12/1.2	1.8 @ 12/5		10 @ 100	140	5 @ 28	40	5 @ 12/1.2	2 @ 12/1.2
2N5039		75	20	20-100 @ 10/5	1 @ 10/1	1.8 @ 10/5		10 @ 85	140	5 @ 28	40	5 @ 12/1	2 @ 12/1
2N5067	2N4901	40	5	20-80 @ 1/2	0.4 @ 1/1	1.2 @ 1/2		1 @ 40	87.5	5 @ 17.5	4	7 @ 1.5/1.5	1.8 @ 1.5/1.5
2N5068	2N4902	60	5	20-80 @ 1/2	0.4 @ 1/1	1.2 @ 1/2		1 @ 60	87.5	5 @ 17.5	4	7 @ 1.5/1.5	1.8 @ 1.5/1.5
2N5069	2N4903	80	5	20-80 @ 1/2	0.4 @ 1/1	1.2 @ 1/2		1 @ 80	87.5	5 @ 17.5	4	7 @ 1.5/1.5	1.8 @ 1.5/1.5
2N5157		500 ^h	3.5	30-90 @ 1/5	0.8 @ 1/1		1.5 @ 1/1	5 @ 700	100	1.43 @ 70	2.8	8 @ 1/1	1.8 @ 1/1
2N5239		250 ^h	5	20-80 @ 2/10	2.5 @ 2/25	3 @ 2/10		4 @ 300	100	0.67 @ 150	5	5 @ 1/1	1.8 @ 1/1
2N5240		350 ^h	5	20-80 @ 2/10	2.5 @ 2/25	3 @ 2/10		2 @ 375	100	0.67 @ 150	5	5 @ 1/1	1.8 @ 1/1
2N5241		325	5	15-35 @ 2.5/5	0.7 @ 2.5/5		1.5 @ 2.5/5	5 @ 400	125	2.1 @ 60	2.5	6 @ 3/6	2 @ 3/6
2N5301	2N4398	40	30	15-60 @ 15/2	2 @ 20/2	1.7 @ 15/2		1 @ 40	200	6.7 @ 30	2	1 @ 0/1	3 @ 10/1
2N5302	2N4399	60	30	15-60 @ 15/2	2 @ 20/2	1.7 @ 15/2		1 @ 60	200	6 @ 33	2	1 @ 0/1	3 @ 10/1
2N5303	2N5745	80	20	15-60 @ 10/4	2 @ 20/4	1.5 @ 10/2		1 @ 80	200	6 @ 33	2	1 @ 0/1	3 @ 10/1
2N5466		400	3	15-60 @ 3/5	0.5 @ 3/6		1.5 @ 3/6	25 @ 500	140	1.75 @ 80	2.5	6 @ 3/6	2 @ 3/6
2N5467		400	3	15-80 @ 3/5	0.5 @ 3/6		1.5 @ 3/6	25 @ 700	140	1.75 @ 80	2.5	6 @ 3/6	2 @ 3/6
2N5575		50	80	10-40 @ 60/4	2 @ 60/6	3 @ 60/6		10 @ 60	300	12 @ 25	0.4	15 @ 60/6	15 @ 60/6
2N5578		70	60	10-40 @ 40/3	1.5 @ 40/4	2.5 @ 40/4		10 @ 80	300	12 @ 25	0.4	10 @ 40/4	10 @ 40/4
2N5671		90	30	20-100 @ 15/2	0.75 @ 15/1.2		1.5 @ 15/1.2	12 @ 110	140	7 @ 20	50	5 @ 15/1.2	2 @ 15/1.2
2N5672		120	30	20-100 @ 15/2	0.75 @ 15/1.2		1.5 @ 15/1.2	10 @ 135	140	7 @ 20	50	5 @ 15/1.2	2 @ 15/1.2
2N5685 ^d	2N5683	60	50	15-60 @ 25/2	1 @ 25/2.5	2 @ 25/2		2 @ 60	300	10 @ 30	2	7 @ 25/2.5	1.8 @ 25/2.5
2N5686 ^d	2N5684	80	50	15-60 @ 25/2	1 @ 25/2.5	2 @ 25/2		2 @ 80	300	10 @ 30	2	7 @ 25/2.5	1.8 @ 25/2.5
2N5732		80	20	30-300 @ 5/2	1.2 @ 10/1		1.5 @ 10/1	1 @ 100	87.5	7 @ 20	30	3 @ 5/5	3 @ 5/5
2N5734		80	30	30-300 @ 10/2	1.2 @ 20/2		1.5 @ 20/2	1 @ 100	175	7 @ 20	30	7 @ 10/1	4 @ 10/1
2N5804		225	5	10-100 @ 5/4	2 @ 5/5	2 @ 5/5		5 @ 225	110	2.2 @ 50	15	5 @ 5/5	5.5 @ 5/5
2N5805		300	5	10-100 @ 5/4	2 @ 5/5	2 @ 5/5		2 @ 300	110	2.2 @ 50	15	5 @ 5/5	5.5 @ 5/5
2N5838		275 ^h	3	8-40 @ 3/2	1 @ 3/3.75		2 @ 3/3.75	5 @ 265	100	2.5 @ 40	5	1.5 @ 3/3.75	4.5 @ 3/3.75
2N5839		300 ^h	3	10-50 @ 2/3	1.5 @ 2/2		2 @ 2/2	2 @ 290	100	2.5 @ 40	5	1.5 @ 2/2	5.25 @ 2/2
2N5840		375 ^h	3	10-50 @ 2/3	1.5 @ 2/2		2 @ 2/2	2 @ 360	100	2.5 @ 40	5	1.7 @ 2/2	4.5 @ 2/2
2N5869	2N5867	60	5	20-100 @ 1.5/4	1 @ 2/2	1.6 @ 2/2		1 @ 60	87.5	3.5 @ 25	4	7 @ 1.5/5	1.8 @ 1.5/5
2N5870	2N5868	80	5	20-100 @ 1.5/4	1 @ 2/2	1.6 @ 2/2		1 @ 80	87.5	3.5 @ 25	4	7 @ 1.5/5	1.8 @ 1.5/5
2N5873	2N5871	60	7	20-100 @ 2.5/4	1 @ 4/4	1.6 @ 4/4		25 @ 60	100	3.3 @ 30	4	7 @ 2.5/25	1.8 @ 2.5/25
2N5874	2N5872	80	7	20-100 @ 2.5/4	1 @ 4/4	1.6 @ 4/4		25 @ 80	100	3 @ 33	4	7 @ 2.5/25	1.8 @ 2.5/25
2N5877	2N5875	60	10	20-100 @ 4/4	1 @ 5/5	1.6 @ 5/5		5 @ 60	150	5 @ 30	4	7 @ 4/4	1.8 @ 4/4
2N5878	2N5876	80	10	20-100 @ 4/4	1 @ 5/5	1.6 @ 5/5		5 @ 80	150	4.5 @ 33	4	7 @ 4/4	1.8 @ 4/4
2N5881	2N5879	60	15	20-100 @ 6/4	1 @ 7/7	1.6 @ 5/5		5 @ 60	160	5.33 @ 30	4	7 @ 6/6	1.8 @ 6/6
2N5882	2N5880	80	15	20-100 @ 6/4	1 @ 7/7	1.6 @ 5/5		5 @ 80	160	4 @ 40	4	7 @ 6/6	1.8 @ 6/6
2N5885	2N5883	60	25	20-100 @ 10/4	1 @ 15/1.5	1.8 @ 15/1.5		1 @ 60	200	6 @ 33	4	7 @ 10/1	1.8 @ 10/1
2N5886	2N5884	80	25	20-100 @ 10/4	1 @ 15/1.5	1.8 @ 15/1.5		1 @ 80	200	5 @ 40	4	7 @ 10/1	1.8 @ 10/1
2N5929 ^d		80	30	20-100 @ 10/4	2 @ 10/6.6		2 @ 10/6.6	5 @ 90	175	7.6 @ 23	30	5 @ 10/6.6	8 @ 10/6.6
2N5930 ^d		120	30	20-100 @ 10/4	2 @ 10/6.6		2 @ 10/6.6	5 @ 130	175	7.6 @ 23	30	5 @ 10/6.6	8 @ 10/6.6
2N5931 ^d		160	30	20-100 @ 10/4	2 @ 10/6.6		2 @ 10/6.6	5 @ 170	175	7.6 @ 23	30	5 @ 10/6.6	8 @ 10/6.6
2N5932 ^d		60	30	20-100 @ 20/4	2 @ 20/1.33		2 @ 20/1.33	5 @ 70	175	7.6 @ 23	30	6 @ 20/1.33	9 @ 20/1.33

NOTES: b) ICBO @ VCB (mA @ V) d) Case 804 g) ICES @ VCE (mA @ V) h) VCEr (V) i) (typical)



NEW ENGLAND SEMICONDUCTOR • 6 LAKE STREET, LAWRENCE, MA 01841 •

