

# NPN TO-39/TO-5

Case 801

$I_{(MAX)} = 0.05 \text{ to } 10 \text{ A}$   
 $V_{CE(SUS)} = 40\text{-}800 \text{ V}$   
 $f_T = 1 \text{ to } 50 \text{ MHz}$

Type No.	PNP Complement	V <sub>CEO</sub> (BUS) (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</sub> (SAT) @ I <sub>C</sub> /I <sub>B</sub> (V @ A/A)	V <sub>BE</sub> @ I <sub>C</sub> /V <sub>CE</sub> (V @ A/V)	V <sub>BE</sub> (SAT) @ I <sub>C</sub> /I <sub>B</sub> (V @ A/A)	I <sub>CEY</sub> @ V <sub>CE</sub> (mA @ V)	P <sub>D</sub> @ T <sub>C</sub> = 25 °C (Watts)	C <sub>ob</sub> (pF)	f <sub>T</sub> (MHz)	I <sub>ON</sub> @ I <sub>C</sub> /I <sub>B</sub> (μs @ A/A)	I <sub>OFF</sub> @ I <sub>C</sub> /I <sub>B</sub> (μs @ A/A)
2N1479		40	1.5	20-60 @ 2/4	1.4 @ 2/02	3 @ 2/4		25 @ 80	5	150	15	5 @ 1/1	15 @ 1/1
2N1480		55	1.5	20-60 @ 2/4	1.4 @ 2/02	3 @ 2/4		25 @ 100	5	150	15	5 @ 1/1	15 @ 1/1
2N1481		40	1.5	35-100 @ 2/4	1.4 @ 2/01	3 @ 2/4		25 @ 80	5	150	15	5 @ 1/1	15 @ 1/1
2N1482		55	1.5	35-100 @ 2/4	1.4 @ 2/01	3 @ 2/4		25 @ 100	5	150	15	5 @ 1/1	15 @ 1/1
2N1700		40	1.0	20-80 @ 1/4	1 @ 1/01	2 @ 1/4		5 @ 80	5	150 <sup>1</sup>	12	5 @ 1/1	15 @ 1/1
2N3418		60	3.0	20-60 @ 1/2	.25 @ 1/1	1.2 @ 1/2		.0005 @ 80	7	150	10	3 @ 1/1	1.2 @ 1/1
2N3419		80	3.0	20-60 @ 1/2	.25 @ 1/1	1.2 @ 1/2		.0005 @ 120	7	150	40	3 @ 1/1	1.2 @ 1/1
2N3420		60	3.0	40-120 @ 1/2	.25 @ 1/1	1.2 @ 1/2		.0005 @ 80	7	150	40	3 @ 1/1	1.2 @ 1/1
2N3421		80	3.0	40-120 @ 1/2	.25 @ 1/1	1.2 @ 1/2		.0005 @ 120	7	150	40	3 @ 1/1	1.2 @ 1/1
2N3439	2N5416	350	1.0	40-60 @ 02/10	5 @ 05/004		1.3 @ 05/004	5 @ 450	10	10	15		
2N3440	2N5415	250	1.0	40-60 @ 02/10	5 @ 05/004		1.3 @ 05/004	5 @ 300	10	10	15		
2N3742	2N3743	300	0.5	20-200 @ 03/10	1 @ 01/001		1.2 @ 03/003	.0002 @ 200	5	6	15		
2N4150		70	5.0	40-120 @ 5/5	6 @ 5/5		1.5 @ 5/5	01 @ 100	8.75	150 <sup>1</sup>	15	2 @ 5/5	2 @ 5/5
2N4271		140	1.0	20-140 @ 2/10	8 @ 2/02	1 @ 2/10		02 @ 175	10	25	20		
2N4272		140	2.5	20-140 @ 1/10	6 @ 5/05	1.1 @ 1/10		1 @ 175	10	75	10		
2N4863		120	2.0	50-150 @ 5/5	2 @ 5/05		1.2 @ 5/5	01 @ 140	7	25 <sup>1</sup>	50		
2N4877		60	4.0	20-100 @ 4/2	1 @ 4/4		1.8 @ 4/4	1 @ 170	10	150 <sup>1</sup>	30	1 @ 4/4	2 @ 4/4
2N4926	2N4930	200	0.05	20-200 @ 03/10	1 @ 01/001		1.5 @ 05/003	1 @ 200	5	6	15		
2N4927	2N4931	250	0.06	20-200 @ 03/10	1 @ 01/001		1.5 @ 05/003	1 @ 250	5	6	15		
2N5010		500 <sup>b</sup>	5	30-180 @ 025/10	1.4 @ 025/005		1 @ 025/005	.006 @ 400	4	25	15		
2N5011		600 <sup>b</sup>	5	30-180 @ 025/10	1.5 @ 025/005		1 @ 025/005	.006 @ 500	4	25	15		
2N5012		700 <sup>b</sup>	5	30-180 @ 025/10	1.6 @ 025/005		1 @ 025/005	.006 @ 580	4	25	15		
2N5013		800 <sup>b</sup>	5	30-180 @ 02/10	1.6 @ 02/005		1 @ 02/005	.012 @ 650	4	25	15		
2N5058		300	15	35-150 @ 03/25	1 @ 03/003		.85 @ 03/003	1 @ 300	5	10	15		
2N5059		250	15	30-150 @ 03/25	1 @ 03/003		.85 @ 03/003	1 @ 250	5	10	15		
2N5092	2N5093	350	1.0	15-250 @ 1/10	5 @ 025/0025	1 @ 025/5		1 @ 400	4	15	15		
2N5095	2N5094	400	1.0	15-250 @ 1/10	5 @ 025/0025	1 @ 025/5		1 @ 500	4	15	15		
2N5097	2N5096	450	1.0	15-250 @ 1/10	5 @ 025/0025	1 @ 025/5		1 @ 600	4	15	15		
2N5098		500	1.0	15-250 @ 1/10	5 @ 025/0025	1 @ 025/5		1 @ 700	4	15	15		
2N5099		550	1.0	15-250 @ 1/10	5 @ 025/0025	1 @ 025/5		1 @ 800	4	15	15		
2N5148	2N5147	80	2.0	30-90 @ 1/5	.85 @ 2/2	1.5 @ 2/5		1 @ 100	7	70	50	3 @ 1/1	1.2 @ 1/1
2N5150	2N5149	80	2.0	70-200 @ 1/5	.85 @ 2/2	1.5 @ 2/5		1 @ 100	7	70	50	3 @ 1/1	1.2 @ 1/1
2N5152	2N5151	80	2.0	30-90 @ 2 5/5	.75 @ 2 5/25	1.45 @ 2 5/5		1 @ 100	11.7	250	40 <sup>1</sup>	3 @ 5/5	1.5 @ 5/5
2N5154	2N5153	80	2.0	70-200 @ 2 5/5	.75 @ 2 5/25	1.45 @ 2 5/5		1 @ 100	11.7	250	40 <sup>1</sup>	3 @ 5/5	1.5 @ 5/5
2N5237		120	5.0	40-120 @ 5/5	.6 @ 5/5		1.5 @ 5/5	.01 @ 150	8.75	150 <sup>1</sup>	25	5 @ 5/5	2 @ 5/5
2N5238		170	5.0	40-120 @ 5/5	.6 @ 5/5		1.5 @ 5/5	.01 @ 200	8.75	150 <sup>1</sup>	25	5 @ 5/5	2 @ 5/5
2N5334		80	3.0	30-150 @ 1/2	.7 @ 2/2		1.5 @ 2/2	.001 @ 60	6	75	40	3 @ 1/1	1.2 @ 1/1
2N5335		80	3.0	30-150 @ 1/2	.7 @ 2/2		1.5 @ 2/2	.001 @ 80	6	75	50 <sup>1</sup>	3 @ 1/1	1.2 @ 1/1
2N5336		80	5.0	30-120 @ 2/2	1.2 @ 5/5		1.2 @ 2/2	.01 @ 75	6	250	30	3 @ 5/5	1.5 @ 5/5
2N5337		80	5.0	60-240 @ 2/2	1.2 @ 5/5		1.2 @ 2/2	.01 @ 75	6	250	30	3 @ 5/5	1.5 @ 5/5
2N5338		100	5.0	30-120 @ 2/2	1.2 @ 5/5		1.2 @ 2/2	.01 @ 90	6	250	30	3 @ 5/5	1.5 @ 5/5
2N5339		100	5.0	60-240 @ 2/2	1.2 @ 5/5		1.2 @ 2/2	.01 @ 90	6	250	30	3 @ 5/5	1.5 @ 5/5
2N5541		130	5.0	30-90 @ 5/5	.6 @ 5/5		1.5 @ 5/5	.01 @ 175	8.75	150 <sup>1</sup>	20	5 @ 5/5	2 @ 5/5
2N5729		80	5.0	30-300 @ 2/2	1.5 @ 5/5		1.5 @ 5/5	1 @ 100	11.7	150	30	2 @ 2/2	3.5 @ 2/2
2N5784		65	3.5	20-100 @ 1/2	2 @ 3.2/8	1.5 @ 1/2		.01 @ 75	10	150 <sup>1</sup>	1	5 @ 1/1	1.5 @ 1/1
2N5785		50	3.5	20-100 @ 1 2/2	2 @ 3.2/8	1.5 @ 1 2/2		.01 @ 60	10	150 <sup>1</sup>	1	5 @ 1/1	1.5 @ 1/1
2N5786		40	3.5	20-100 @ 1 6/2	2 @ 3.2/8	1.5 @ 1 6/2		.01 @ 45	10	150 <sup>1</sup>	1	5 @ 1/1	1.5 @ 1/1

NOTES: b) I<sub>CEO</sub> @ V<sub>CE</sub> (mA @ V) g) I<sub>CES</sub> @ V<sub>CE</sub> (mA @ V) h) V<sub>CE(SUS)</sub> (V) i) (typical)



Quality Semi-Conductors