General Transistor Corporation
216 WEST FLORENCE AVENUE
INGLEWOOD, CALIFORNIA 90301
(213) 673-8422 • Telex 65-3474 • FAX (213) 672-2905

CASE TO-3, TO-39
$I_{C(MAX)}$ = 3-50A
$V_{CEO(SUS)}$ = 40-100V

T-33-01

PNP Power Transistors

Type No.	NPN complement	VCEO (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)	Ie/b@VCE t = 1 sec (A @ V)	fr (MHz)	ton @ Ic/IB (µs @ A/A)	tOFF @ IC/IB (µs @ A/A)
2N3789	2N3713	60	10	25-90 @ 1/2	1 @ 4/4		2 @ 4/.4	1 @ 60	150	5 @ 30	4	.7[f] @ 4/.4	1.8 @ 4/.4
2N3790	2N3714	80	10	25-90 @ 1/2	1 @ 4/4		2 @ 4/.4	1 @ 80	150	5 @ 30	4	.7[f] @ 4/.4	1.8 @ 4/.4
2N3791	2N3715	60	10	50-150 @ 1/2	1 @ 5/5		1.5 @ 5/.5	1 @ 60	150	5 @ 30	4	.7[f] @ 4/.4	1.8 @ 4/.4
2N3792	2N3716	80	10	50-150 @ 1/2	1 @ 5/5		1.5 @ 5/.5	1 @ 80	150	5 @ 30	4	.7[f] @ 4/.4	1.8 @ 4/.4
2N4398	2N5301	40	30	15-60 @ 15/2	2 @ 20/2	1.7 @ 15/2		5 @ 40	200	6.7 @ 30	4	.4 @ 10/1	2.1 @ 10/1
2N4399	2N5302	60	30	15-60 @ 15/2	2 @ 20/2	1.7 @ 15/2		5 @ 60	200	6.7 @ 30	4	.4 @ 10/1	2.1 @ 10/1
2N4901	2N5067	40	5	20-80 @ 1/2	1.5 @ 5/1	1.2 @ 1/2		.1 @ 40	87.5	5 @ 17.5	4	.7[f] @ 1.5/.15	1.8[f] @ 1.5/.15
2N4902	2N5068	60	5	20-80 @ 1/2	1.5 @ 5/1	1.2 @ 1/2		.1 @ 60	87.5	5 @ 17.5	4	.7[f] @ 1.5/.15	1.8[f] @ 1.5/.15
2N4903	2N5069	80	5	20-80 @ 1/2	1.5 @ 5/1	1.2 @ 1/2		.1 @ 80	87.5	5 @ 17.5	4	.7[f] @ 1.5/.15	1.8[f] @ 1.5/.15
2N4904	2N4913	40	5	25-100 @ 2.5/2	1.5 @ 5/1	1.4 @ 2.5/2		.1 @ 40	87.5	5 @ 17.5	4	.7[f] @ 4/.4	1.8[f] @ 4/.4
2N4905	2N4914	60	5	25-100 @ 2.5/2	1.5 @ 5/1	1.4 @ 2.5/2		.1 @ 60	87.5	5 @ 17.5	4	.7[f] @ 4/.4	1.8[f] @ 4/.4
2N4906	2N4915	80	5	25-100 @ 2.5/2	1.5 @ 5/1	1.4 @ 2.5/2		.1 @ 80	87.5	5 @ 17.5	4	.7[f] @ 4/.4	1.8[f] @ 4/.4
2N5683	2N5685	60	50	15-60 @ 25/2	1 @ 25/2.5	2 @ 25/2		2 @ 60	300	10 @ 30	2	.7[f] @ 25/2.5	1.8[f] @ 25/2.5
2N5684	2N5686	80	50	15-60 @ 25/2	1 @ 25/2.5	2 @ 25/2		2 @ 80	300	10 @ 30	2	.7[f] @ 25/2.5	1.8[f] @ 25/2.5
2N5745	2N5303	80	20	15-60 @ 10/2	2 @ 20/4	1.5 @ 10/2		5 @ 80	200	6.7 @ 30	2	1 @ 10/1	3 @ 10/1
2N5867	2N5869	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/.15	1.8 @ 1.5/.15
2N5868	2N5870	80	5	20-100 @ 2.5/4	1 @ 2/.2		1.6 @ 2/.2	.1 @ 80	87.5	3.5 @ 25	4	.7 @ 1.5/.15	1.8 @ 1.5/.15
2N5871	2N5873	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
2N5872	2N5874	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
2N5875	2N5877	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
2N5876	2N5878	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
2N5879	2N5881	60	15	20-100 @ 6/4	1 @ 7/.7		1.6 @ 7/.7	5 @ 60	160	5.33 @ 30	4	.7 @ 6/.6	1.8 @ 6/.6
2N5880	2N5882	80	15	20-100 @ 6/4	1 @ 7/.7		1.6 @ 7/.7	5 @ 80	160	4 @ 40	4	.7 @ 6/.6	1.8 @ 6/.6
2N5883	2N5885	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
2N5884	2N5886	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
2N6246		60	15	20-100 @ 7/4	1.3 @ 7/.7	2 @ 7/4		.2 @ 65	125	7.1 @ 17.5	6	.7[f] @ 6/.6	1.8[f] @ 6/.6
2N6247		80	15	20-100 @ 6/4	1.3 @ 6/.6	1.8 @ 6/4		.2 @ 85	125	7.1 @ 17.5	6	.7[f] @ 6/.6	1.8[f] @ 6/.6
2N6329	2N6326	60	30	6-30 @ 30/4	1.5 @ 15/2	2 @ 15/4		.5[g] @ 60	200	10 @ 20	3	.4[f] @ 10/1	1.8[f] @ 10/1
2N6330	2N6327	80	30	6-30 @ 30/4	1.5 @ 15/2	2 @ 15/4		.5[g] @ 80	200	10 @ 20	3	.4[f] @ 10/1	1.8[f] @ 10/1
2N6331	2N6328	100	30	6-30 @ 30/4	1.5 @ 15/2	2 @ 15/4		.5[g] @ 100	200	10 @ 20	3	.4[f] @ 10/1	1.8[f] @ 10/1
2N6436		80	25	20-80 @ 10					200		40		
2N6437		100	25	20-80 @ 10					200		40		
2N6438		120	25	20-80 @ 10					200		40		
2N6377		80	50	30-120 @ 20					250		30		
2N6378		100	50	30-120 @ 20					250		30		
2N6379		120	50	30-120 @ 20					250		30		
MJ6502		250	8	15 @ 2					125				
MJ6503		400	8	15 @ 2					125				

NOTES: b) ICBO @ VCB (MA @ V) g) ICES @ VCE (mA @ V) h) VCER (V) f) (typical)

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CASE TO-5/TO-39
$I_{C(MAX)}$ = 0.05-10A
$V_{CEO(SUS)}$ = 40-800V

NPN Power Transistors

Type No.	PNP complement	VCEO (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)	fr (MHz)	ton @Ic/IB (µs @ A/A)	tOFF @IC/IB (µs @ A/A)
2N1479		40	1.5	20-60 @ .2/4	1.4 @ .2/.02	3 @ 2/4		.25 @ 60	5	150	1.5	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	1.5	5' @ 1/.1	15' @ 1/.1
2N1481		40	1.5	35-100 @ .2/4	1.4 @ .2/.01	3 @ 2/4		.25 @ 60	5	150	1.5	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	1.5	5' @ 1/.1	15' @ 1/.1
2N1700		40	1.0	20-80 @ .1/4	1 @ 1/.01	2 @ .1/4		.5[b] @ 60	5	150[t]	1.2	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
2N3431		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	.05	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'	15	.2 @ 5/.5	2.2 @ 5/.5
2N4237	2N4234	40	3.0	30 @ .25/1	.6 @ 1/.1				6				
2N4238	2N4235	60	3.0	30 @ .25/1	.6 @ 1/.1				6				
2N4239	2N4236	80	3.0	30 @ .25/1	.6 @ 1/.1				6				
2N4271		140	1.0	20-140 @ .2/10	.8 @ 2/.02	1 @ .2/10		.02[g] @ 175	10	25	20		
2N4272		140	2.5	20-140 @ 1/10	.6 @ 5/.05	1.1 @ 1/10		.1[g] @ 175	10	75	10		
2N4863		120	2.0	50-150 @ .5/5	.2 @ .5/.05		1.2 @ .5/5	.01 @ 140	7	25'	50		
2N4877		60	4.0	20-100 @ 4/2	1 @ 4/.4		1.8 @ 4/.4	.1 @ 170	10	150'	30	.1 @ 4/.4	2 @ 4/.4
2N4895		60	5.0	40 @ 2/2	1.0 @ 5/.5				7				
2N4896		60	5.0	100 @ 2/2	1.0 @ 5/.5				7				
2N4897		80	5.0	40 @ 2/2	1.0 @ 5/.5				7				
2N4926	2N4930	200	.05	20-200 @ .03/10	1 @ .01/.001		1.5 @ .05/.003	.1[h] @ 200	5	6	15'		
2N4927	2N4931	250	.05	20-200 @ .03/10	1 @ .01/.001		1.5 @ .05/.003	.1[h] @ 250	5	6	15'		
2N5010		500[h]	.5	30-180 @ .025/10	1.4 @ .025/.005		1 @ .025/.005	.006[h] @ 400	4	25	15'		
2N5011		600[h]	.5	30-180 @ .025/10	1.5 @ .025/.005		1 @ .025/.005	.006[h] @ 500	4	25	15'		
2N5012		700[h]	.5	30-180 @ .025/10	1.6 @ .025/.005		1 @ .025/.005	.006[h] @ 580	4	25	15'		
2N5013		800[h]	.5	30-180 @ .02/10	1.6 @ .02/.005		1 @ .02/.005	.012[h] @ 650	4	25	15'		
2N5058		300	.15	35-150 @ .03/.25	1 @ .03/.003		.85 @ .03/.003	.1[h] @ 300	5	10	15'		
2N5059		250	.15	35-150 @ .03/.25	1 @ .03/.003		.85 @ .03/.003	.1[h] @ 250	5	10	15'		
2N5092	2N5093	350	1.0	15-250 @ .1/10	.5 @ .025/.0025	1 @ .025/5		.1[h] @ 400	4	15	15'		
2N5095	2N5904	400	1.0	15-250 @ .1/10	.5 @ .025/.0025	1 @ .025/5		.1[h] @ 500	4	15	15'		
2N5097	2N5906	450	1.0	15-250 @ .1/10	.5 @ .025/.0025	1 @ .025/5		.1[h] @ 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 @ 2.5/5	.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/.25	.75 @ 2.5/.25	1.45 @ 2.5/5		1 @ 100	11.7	250	40'	.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'	.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'	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'	25	.5 @ 5/.5	2 @ 5/.5
2N5334		60	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	50t	.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'	20	.5 @ 5/.5	2 @ 5/.5
2N5681	2N5679	100	1.0	40 @ .25/2	1.0 @ .5/.05				10				
2N5682	2N5680	120	1.0	40 @ .25/2	1.0 @ .5/.05			1[t] @ 100	10				
2N5729		80	5.0	30-300 @ 2/2	1.5 @ 5/.5		1.5 @ 5/.5		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'	1	5 @ 1/.1	15 @ 1/.1
2N5785		50	3.5	20-100 @ 1.2/2	2 @ 3.2/.8	1.5 @ 1.2/2		.01 @ 60	10	150'	1	5 @ 1/.1	15 @ 1/.1
2N5786		40	3.5	20-100 @ 1.6/2	2 @ 3.2/.8	1.5 @ 1.6/2		.01 @ 45	10	150'	1	5 @ 1/.1	15 @ 1/.1

NOTES: b) ICBO @ VCB (MA @ V) g) ICES @ VCE (mA @ V) h) VCER (V) t) (typical)

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CASE TO-66
$I_{C(MAX)}$ = 1-5A
$V_{CEO(SUS)}$ = 40-425V

PNP Power Transistors

Type No.	NPN complement	VCEO (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 = 100°C (Watts)	fa/b @ VCE t = 1 sec (A @ V)	ft (MHz)	ton @ Ic/IB (µs @ A/A)	tOFF @IC/IB (µs @ A/A)
2N3740	2N3766	60	1	30-100 @ .25/.1	.6 @ 1/.125	1 @ .25/1		.1 @ 60	25	1.5 @ 17	4		
2N3740A		60	1	30-100 @ .25/.1	.6 @ 1/.125	1 @ .25/1		.0001 @ 60	25	1.5 @ 17	4		
2N3741	2N3767	80	1	30-100 @ .25/.1	.6 @ 1/.125	1 @ .25/1		.1 @ 80	25	1.5 @ 17	4		
2N3741A		80	1	30-100 @ .25/.1	.6 @ 1/.125	1 @ .25/1		.0001 @ 80	25	1.5 @ 17	4		
2N4898	2N4910	40	1	20-100 @ .5/1	.6 @ 1/.1	1.3 @ 1/1		.1 @ 40	25	1.5 @ 17	3		
2N4899	2N4911	60	1	20-100 @ .5/1	.6 @ 1/.1	1.3 @ 1/1		.1 @ 60	25	1.5 @ 17	3		
2N4900	2N4912	80	1	20-100 @ .5/1	.6 @ 1/.1	1.3 @ 1/1		.1 @ 80	25	1.5 @ 17	3		
2N5344		250	1	25-100 @ .5/.5	3 @ 1/1.2		1.5 @ 1/.2	.1 @ 22	40	1 @ 22	10[t]	.2 @ .5/.05	.7 @ .5/.05
2N5345		300	1	25-100 @ .5/.5	3 @ 1/.2		1.5 @ 1/.2	.1 @ 270	40	1 @ 22	10[t]	.2 @ .5/.05	.7 @ .5/.05
2N5954	2N6374	80	6	20-100 @ 2/4	1 @ 2/.2	2 @ 2/4		.1 @ 85	40	1.75 @ 23	5	.7[t] @ 1.5/.15	1.8[t] @ 1.5/.15
2N5955	2N6373	80	6	20-100 @ 1.5/4	1 @ 2.5/2.5	2 @ 2.5/4		.1 @ 65	40	1.75 @ 23	5	.7[t] @ 1.5/.15	1.8[t] @ 1.5/.15
2N5956	2N6372	40	6	20-100 @ 3/4	1 @ 3/.3	2 @ 3/4		.1 @ 45	40	1.75 @ 23	5	.7[t] @ 1.5/.15	1.8[t] @ 1.5/.15
2N6049	2N3054A	55	4	25-100 @ .5/4	.5 @ .5/.05	1 @ .5/4			75	3 @ 25	3	.7[t] @ 1.5/.15	1.8[t] @ 1.5/.15
2N6211	2N3583	250[h]	2	10-100 @ 1/2.8	1.4 @ 1/.125		1.4 @ 1/.125	.1 @ 90	35	.875 @ 40	20	.6 @ 1/.125	3.1 @ 1/.125
2N6212	2N3584	325[h]	2	10-100 @ 1/3.2	1.6 @ 1/.125		1.4 @ 1/.125	.5 @ 250	35	.875 @ 40	20	.6 @ 1/.125	3.1 @ 1/.125
2N6213	2N3585	375[h]	2	10-100 @ 1/4	2 @ 1/.125		1.4 @ 1/.125	.2 @ 360	35	.875 @ 40	20	.6 @ 1/.125	3.1 @ 1/.125
2N6214		425[h]	2	10-100 @ 1/5	2.5 @ 1/.125		1.4 @ 1/.125	.5 @ 410	35	.875 @ 40	20	.6 @ 1/.125	3.1 @ 1/.125
2N6312	2N4232A	40	5	25-100 @ 1.5/4	.7 @ 1.5/.15	1.4 @ 1.5/4		.1 @ 40	75	3 @ 25	4	.7[t] @ 1.5/.15	1.8[t] @ 1.5/.15
2N6313	2N4233A	60	5	25-100 @ 1.5/4	.7 @ 1.5/.15	1.4 @ 1.5/4		.1 @ 60	75	3 @ 25	4	.7[t] @ 1.5/.15	1.8[t] @ 1.5/.15
2N6314	2N4233A	80	5	25-100 @ 1.5/4	.7 @ 1.5/.15	1.4 @ 1.5/4		.1 @ 80	75	3 @ 25	4	.7[t] @ 1.5/.15	1.8[t] @ 1.5/.15
2N6317	2N6315	60	7	20-100 @ 2.5/4	1 @ 4/.4	1.5 @ 2.5/4		.25 @ 60	90	3 @ 30	4	.7 @ 2.5/.25	1.8 @ 2.5/.25
2N6318	2N6316	80	7	20-100 @ 2.5/4	1 @ 4/.4	1.5 @ 2.5/4		.25 @ 80	90	3 @ 30	4	.7 @ 2.5/.25	1.8 @ 2.5/.25

NOTES: h) VCER (V) t) (typical)

CASE TO-59/TO-111
$I_{C(MAX)}$ = 3A-10A
$V_{CEO(SUS)}$ = 40-100V

NPN Power Transistors

Type No.	VCEO (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)	fa/b@VCE t = 1 sec (A @ V)	ft (MHz)	ton @ Ic/IB (µs @ A/A)	tOFF @IC/IB (µs @ A/A)
2N2877	50	5	20-60 @ 1/2	2 @ 5/.5	1.2 @ 1/2		.01 @ 80	30	2.5 @ 12	30	.3[t] @ 1/.1	1.5[t] @ 1/.1
2N2878	50	5	40-120 @ 1/2	2 @ 5/.5	1.2 @ 1/2		.01 @ 80	30	2.5 @ 12	50	.3[t] @ 1/.1	1.5[t] @ 1/.1
2N2879	70	5	20-60 @ 1/2	2 @ 5/.5	1.2 @ 1/2		.01 @ 100	30	2.5 @ 12	30	.3[t] @ 1/.1	1.5[t] @ 1/.1
2N2880	70	5	40-120 @ 1/2	2 @ 5/.5	1.2 @ 1/2		.01 @ 100	30	1.5 @ 12	50	.3[t] @ 1/.1	1.5[t] @ 1/.1
2N2892	80	5	30-90 @ 1/2	.75 @ 2/.2		1.2 @ 1/.1	.1[b] @ 100	17	3 @ 10	30	.3 @ 1/.05	1.5 @ 1/.05
2N2893	80	5	50-150 @ 1/2	.75 @ 2/.2		1.2 @ 1/.1	.1[b] @ 100	17	3 @ 10	30	.3 @ 1/.05	1.5 @ 1/.05
2N3850	80	5	50-150 @ 1/1	.5 @ 2/.2		1.3 @ 2/.2	.0001[b] @ 80	40		20	.2 @ 1/.05	.9 @ 1/.05
2N3851	80	5	30-90 @ 1/1	.5 @ 2/.2		1.3 @ 2/.2	.0001[b] @ 80	40		20	.2 @ 1/.05	.9 @ 1/.05
2N3852	40	5	50-150 @ 1/1	.5 @ 2/.2		1.3 @ 2/.2	.0001[g] @ 40	40		20	.2 @ 1/.05	.9 @ 1/.05
2N2853	40	5	30-90 @ 1/1	.5 @ 2/.2		1.3 @ 2/.2	.0001[g] @ 40	40		20	.2 @ 1/.05	.9 @ 1/.05
2N3998[e]	80	5	40-120 @ 1/2	2 @ 5/.5		.6-1.2 @ 1/.1	.005[b] @ 90	30	1.5 @ 20	40	.3 @ 1/.1	1.5 @ 1/.1
2N3999[e]	80	5	80-240 @ 1/2	2 @ 5/.5		.6-1.2 @ 1/.1	.005[b] @ 90	30	1.5 @ 20	40	.3 @ 1/.1	2 @ 1/.1
2N5477	80	7	30-120 @ 2/2	1.2 @ 7/.7		1.2 @ 2/.2	.01[b] @ 80	34	3 @ 20	30	.2 @ 2/.2	2.2 @ 2/.2
2N5478	80	7	60-240 @ 2/2	1.2 @ 7/.7		1.2 @ 2/.2	.01[b] @ 80	34		30	.2 @ 2/.2	2.2 @ 2/.2
2N5479	100	7	30-120 @ 2/2	1.2 @ 7/.7		1.2 @ 2/.2	.01[b] @ 100	34		30	.2 @ 2/.2	2.2 @ 2/.2
2N5480	100	7	60-240 @ 2/2	1.2 @ 7/.7		1.2 @ 2/.2	.01[b] @ 100	34		30	.2 @ 2/.2	2.2 @ 2/.2

NOTES: b) I_{CBO} @ V_{CB} (mA @ V) g) I_{CES} @ V_{CE} (mA @ V) t) (typical)

General Transistor Corporation
216 WEST FLORENCE AVENUE
INGLEWOOD, CALIFORNIA 90301
(213) 673-8422 • Telex 65-3474 • FAX (213) 672-2905

PNP Power Transistors

CASE TO-5/TO-39
$I_{C(MAX)}$ = 0.05-5A
$V_{CEO(SUS)}$ = 40-450V

Type No.	NPN complement	V_{CEO} (sus) (V)	I_C (max) (A)	h_{FE}@Ic/Vce (min-max @ A/V)	$V_{CE(SAT)}$ @ Ic/IB (V @ A/A)	V_{BE} @ Ic/VCE (V @ A/V)	I_{CEV} @VCE (mA @ V)	PD@ TC = 100°C (Watts)	Cob (pf)	fr (MHz)	ton @ Ic/IB (µs @ A/A)	tOFF @ IC/IB (µs @ A/A)
2N3743	2N3742	300	.05	25-250 @ .03/10	8 @ .03/.003	1.2[c] @ .03/.003	.0003[b] @ 200	5		10[t]		
2N3867		40	3	>25 @ 2.5/3	1.3 @ 2.5/.25	2.2 @ 2.5/.25	.001 @ 40	6	120	60	.3[t] @ 1/.1	1.2[t] @ 1/.1
2N3868		60	3	>25 @ 2.5/3	1.3 @ 2.5/.25	2.2 @ 2.5/.25	.001 @ 60	6	120	60	.3[t] @ 1/.1	1.2[t] @ 1/.1
2N4930	2N4926	200	.05	20-200 @ .01/10	5 @ .01/.001	1 @ .01/10	.1[b] @ 200	5	20	10[t]		
2N4931	2N4927	250	.05	20-200 @ .01/10	5 @ .01/.001	1 @ .01/10	.1[b] @ 250	5	20	10[t]		
2N5091		300	1	20-200 @ .1/15	3 @ .025/.0025	1 @ .025/10	.1[b] @ 350	4	20	10[t]		
2N5093	2N5092	350	1	20-200 @ .1/15	3 @ .025/.0025	1 @ .025/10	.1[b] @ 400	4	20	10[t]		
2N5094	2N5095	400	1	20-200 @ .1/15	3 @ .025/.0025	1 @ .025/10	.1[b] @ 450	4	20	10[t]		
2N5096	2N5097	450	1	20-200 @ .1/15	3 @ .025/.0025	1 @ .025/10	.1[b] @ 500	4	20	10[t]		
2N5147	2N5148	80	2	30-90 @ 1/5	.85 @ 2/.2	1.5 @ 2/5	1 @ 100	6	120	50	.3[t] @ 1/.1	1.2[t] @ 1/.1
2N5149	2N5150	80	5	70-200 @ 1/5	.85 @ 2/.2	1.5 @ 2/5	1 @ 100	6	120	60	.3[t] @ 1/.1	1.2[t] @ 1/.1
2N5151	2N5152	80	5	30-90 @ 2.5/5	.75 @ 2.5/.25	1.45 @ 2.5/5	1 @ 100	10	250	60	.3[t] @ 1/.1	1.2[t] @ 1/.1
2N5153	2N5154	80	5	70-200 @ 2.5/5	.75 @ 2.5/.25	1.45 @ 2.5/5	1 @ 100	10	250	60	.3[t] @ 1/.1	1.2[t] @ 1/.1
2N5415	2N3440	200	1	30-150 @ .05/10	2.5 @ .05/.005	1.5 @ .05/10	.05 @ 200	10	15	15		
2N5416	2N3439	300	1	30-150 @ .05/10	2 @ .05/.005	1.5 @ .05/10	.05 @ 300	10	15	15		

NOTES: b) ICBO @ VCB (mA @ V) c) VBE (SAT) @ IC/IB (V @ A/A) t) (typical)

NPN Power Transistors

CASE TO-8
$I_{(MAX)}$ = 1-3A
$V_{CEO(SUS)}$ = 40-55V

Type No.		VCEO (sus) (V)	IC (max) (A)	h_{FE}@Ic/Vce (min-max @ A/V)	VCE(SAT) @ IC/IB (V @ A/A)	VBE @ IC/VCE (V @ A/V)	ICEV @VCE (mA @ V)	PD@ TC = 25°C (Watts)	Is/b@VCE t = 1 sec (A @ V)	fr (MHz)	ton @ Ic/IB (µs @ A/A)	tOFF @ IC/IB (µs @ A/A)
2N1483		40	3	20-60 @ .75/4	2 @ .75/.075	3.5 @ .75/4	.015[b] @ 30	25	1[t] @ 25	1.25	.3[t] @ 1/.1	6[t] @ 1/.1
2N1484		55	3	20-60 @ .75/4	2 @ .75/.075	3.5 @ .75/4	.015[b] @ 30	25	1[t] @ 25	1.25	.3[t] @ 1/.1	6[t] @ 1/.1
2N1485		40	3	35-100 @ .75/4	.75 @ .75/4	2.5 @ .75/4	.015[b] @ 30	25	1[t] @ 25	1.25	.3[t] @ 1/.1	6[t] @ 1/.1
2N1486		55	3	35-100 @ .75/4	2.5 @ .75/4	2.5 @ .75/4	.015[b] @ 30	25	1[t] @ 25	1.25	.3[t] @ 1/.1	6[t] @ 1/.1
2N1701		40	2.5	20-80 @ 3/4	3 @ .3/4	3 @ .3/4	.75[b] @ 60	25	1[t] @ 25	0.35	.3[t] @ 1/.1	6[t] @ 1/.1

NOTES: b) ICBO @ VCB (mA @ V) t) (typical)

General Transistor Corporation
216 WEST FLORENCE AVENUE
INGLEWOOD, CALIFORNIA 90301
(213) 673-8422 • Telex 65-3474 • FAX (213) 672-2905

CASE TO-61
$I_{C(MAX)}$ = 5 to 20A
$V_{CEO(SUS)}$ = 40-300V

NPN Power Transistors

Type No.		VCEO (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/V)	ICEV @VCE (mA @ V)	PD@ TC = 25°C (Watts)	fe/b@VCE t = 1 sec (A @ V)	ft (MHz)	ton @ Ic/IB (µs @ A/A)	tOFF @ IC/IB (µs @ A/A)
2N1724		80	5	20-90 @ 2/15	1 @ 2/.2		2 @ 2/.2	10[b] @ 120	50	1.25 @ 40	10	.3[f] @ 5/.5	1.5[f] @ 5/.5
2N1724A		120	5	30-90 @ 2/15	.6 @ 2/.2		1.2 @ 2/.2	10[b] @ 180	50	1.25 @ 40	10	.3[f] @ 5/.5	1.5[f] @ 5/.5
2N1725		80	5	50-150 @ 2/15	1 @ 2/.2		2 @ 2/.2	10[b] @ 120	50	1.25 @ 40	10	.3[f] @ 5/.5	1.5[f] @ 5/.5
2N2811		50	10	20-60 @ 5/5	.5 @ 5/.5		1.2 @ 5/.5	.01 @ 80	40	1.25[f] @ 40	15	.3[f] @ 5/.5	1.5[f] @ 5/.5
2N2812		50	10	40-120 @ 5/5	.5 @ 5/.5		1.2 @ 5/.5	.01 @ 80	40	1.25 @ 40	15	.3[f] @ 5/.5	1.5[f] @ 5/.5
2N2813		70	10	20-60 @ 5/5	.5 @ 5/.5		1.2 @ 5/.5	.01 @ 120	40	1.25[f] @ 40	15	.3[f] @ 5/.5	1.5[f] @ 5/.5
2N2814		70	10	40-120 @ 5/5	.5 @ 5/.5		1.2 @ 5/.5	.01 @ 120	40	1.25[f] @ 40	15	.3[f] @ 5/.5	1.5[f] @ 5/.5
2N3487		60	7.5	20-60 @ 3/5	1.2 @ 3/.3	1.5 @ 3/5		.1[b] @ 80	67	7.5 @ 15.6	10	.35 @ 5/.5	2.35 @ 5/.5
2N3488		80	7.5	20-60 @ 3/5	1.2 @ 3/.3	1.5 @ 3/5		.1[b] @ 100	67	7.5 @ 15.6	10	.35 @ 5/.5	2.35 @ 5/.5
2N3489		100	7.5	15-45 @ 3/5	1.2 @ 3/.3	1.5 @ 3/5		.1[b] @ 120	67	7.5 @ 15.6	10	.35 @ 5/.5	2.35 @ 5/.5
2N3490		60	7.5	40-120 @ 5/5	1.5 @ 5/.5	1.4 @ 5/5		.1[b] @ 80	67	7.5 @ 15.6	10	.35 @ 5/.5	2.35 @ 5/.5
2N3491		80	7.5	40-120 @ 5/5	1.5 @ 5/.5	1.4 @ 5/5		.1[b] @ 100	67	7.5 @ 15.6	10	.35 @ 5/.5	2.35 @ 5/.5
2N3492		100	7.5	30-90 @ 5/5	1.5 @ 5/.5	1.4 @ 5/5		.1[b] @ 120	67	7.5 @ 15.6	10	.35 @ 5/.5	2.35 @ 5/.5
2N3597		40	20	40-120 @ 10/2	1.5 @ 20/2	1.2 @ 10/2		.01 @ 60	100	4 @ 25	30	.7 @ 10/1	2.7 @ 10/1
2N3598		60	20	40-120 @ 10/2	1.5 @ 20/2	1.2 @ 10/2		.1 @ 80	100	4 @ 25	30	.7 @ 10/1	2.7 @ 10/1
2N3599		80	20	40-120 @ 10/2	1.5 @ 20/2	1.2 @ 10/2		.01 @ 100	100	4 @ 25	30	.7 @ 10/1	2.7 @ 10/1
2N4301		80	10	30-120 @ 5/4	.4 @ 5/.5	1.2 @ 10/4		.01[g] @ 90	50	3 @ 16.7	40	.5[f] @ 10/1	1.5[f] @ 10/1
2N5048		100	10	15-60 @ 10/4	2 @ 10/1		3 @ 10/1	1[g] @ 120	50	1 @ 50	10	.6 @ 10/1.5	2.1 @ 10/1.5
2N5049		50	10	15-60 @ 10/4	2.5 @ 10/1		3 @ 10/1	10[g] @ 60	50	1 @ 50	10	1 @ 10/1.5	3.5 @ 10/1.5
2N5218		200	10	15-120 @ 5/5	.6 @ 5/.5	1.2 @ 5/5		.01 @ 220	50	1.43 @ 35	40	.6 @ 1/.1	5.5 @ 1/.1
2N5313		80	10	30-90 @ 10/5	1.5 @ 10/1		1.5 @ 10/1	.01 @ 80	50	2.5 @ 20	30	.5 @ 10/1	1.5 @ 10/1
2N5315		100	10	30-90 @ 10/5	1.5 @ 10/1		1.5 @ 10/1	.01 @ 100	50	2.5 @ 20	30	.5 @ 10/1	1.5 @ 10/1
2N5387		200	7.5	25-100 @ 2/5	2.2 @ 7/1.4	2.5 @ 7/5		1[g] @ 180	100	5 @ 20	15	1.5[f] @ 5/.5	3[f] @ 5/.5
2N5388		250	7.5	25-100 @ 2/5	2.2 @ 7/1.4	2.5 @ 7/5		1[g] @ 225	100	5 @ 20	15	1.5[f] @ 5/.5	3[f] @ 5/.5
2N5389		300	7.5	25-100 @ 2/5	2.2 @ 7/1.4	2.5 @ 7/5		1 @ 270	100	2 @ 20	15	1.5[f] @ 5/.5	3[f] @ 5/.5
2N5540		300	10	20-60 @ 5/5	1 @ 8/.8		1.2 @ 5/.5	.1 @ 325	50	.83 @ 60	20	1.5 @ 5/.5	3 @ 5/15
2N5542		130	10	30-90 @ 5/5	.5 @ 5/.5		1.2 @ 5/.5	.01 @ 175	50	5 @ 10	20	.5 @ 5/.5	2 @ 5/.5
2N5959		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
2N6562		450	10	10-40 @ 5/2	.75 @ 5/1		1.4 @ 5/1	1 @ 450	125	2.8 @ 45	10	.6 @ 5/1	3 @ 5/1
2N6563		300	10	10-50 @ 10/2	.75 @ 10/2		1.8 @ 10/2	1 @ 300	100	2 @ 50	15	.6 @ 5/1	1.7 @ 5/1
2N6585		350	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 5/1	.5 @ 450	125	.09 @ 200	12.5	.55 @ 5/1	2.5 @ 5/1
2N6586		400	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 5/1	.5 @ 500	125	.09 @ 200	12.5	.55 @ 5/1	2.5 @ 5/1
2N6587		450	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 5/1	.5 @ 550	125	.09 @ 200	12.5	.55 @ 5/1	2.5 @ 5/1
2N6588		350	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 7/1.4	.5 @ 450	125	.09 @ 200	12.5	.55 @ 7/1.4	2.5 @ 7/1.4
2N6589		400	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 7/1.4	.5 @ 500	125	.09 @ 200	12.5	.55 @ 7/1.4	2.5 @ 7/1.4
2N6590		450	10	7-35 @ 5/3	3 @ 10/5		1.5 @ 7/1.4	.5 @ 550	125	.09 @ 200	12.5	.55 @ 7/1.4	2.5 @ 7/1.4
2N6689		300	15	>8 @ 10/2	1 @ 10/2		1.5 @ 10/2	.1 @ 450	175	5[f] @ 20	15	.7 @ 10/2	3 @ 10/1
2N6690		400	15	>8 @ 10/2	1 @ 10/2		1.5 @ 10/2	.1 @ 650	175	5[f] @ 20	15	.7 @ 10/2	3 @ 10/1
2N6691		300	15	>8 @ 15/3	1 @ 15/3		1.5 @ 15/3	.1 @ 450	175	5[f] @ 20	15	.7 @ 15/3	3 @ 15/3
2N6692		350	15	>8 @ 15/3	1 @ 15/3		1.5 @ 15/3	.1 @ 550	175	5[f] @ 20	15	.7 @ 15/3	3 @ 15/3
2N6693		400	15	>8 @ 15/3	1 @ 15/3		1.5 @ 15/3	.1 @ 650	175	5[f] @ 20	15	.7 @ 15/3	3 @ 15/3

NOTES: b) ICBO @ VCB (mA @ V) g) ICES @ VCE (mA @ V) f) (typical)