



NPN TO-39/TO-5

2848352 DIODE TRANSISTOR CO INC

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DIODE TRANSISTOR CO., INC.

(201) 688-0400 • Telex: 139-385 • Outside NY & NJ area call TOLL FREE 800-526-4581
FAX No. 201-575-5863

I_C(MAX) 0.05 to 10A

V_{CE0}(SUS) = 40 to 800V

f_r = 1.0 to 50 MHz

Type#	PNP Complement	V _{CE0} (sus) (Volts)	I _C Max	h _{FE} @I _C /V _{CE} (Min-Max @A/V)	V _{CE} (SAT) @I _C /I _B (V@A/A)	V _{BE} @I _C /V _{CE} (V@A/V)	E _{CEV} @V _{CE} (mA @ V)	P _D @ T _C =25°C (Watts)	C _{ob} (pf)	f _r (MHz)	t _{ON} @I _C /I _B (s@A/A)	t _{OFF} @I _C /I _B (s@A/A)
2N1479		40	1.5	20-60 @.2/4	1.4 @.2/.02	3 @.2/4	.25 @60	5.0	150	1.5		
2N1480		55	1.5	20-60 @.2/4	1.4 @.2/.02	3 @.2/4	.25 @100	5.0	150	1.5		
2N1481		40	1.5	35-100 @.2/4	1.4 @.2/.02	3 @.2/4	.25 @60	5.0	150	1.5		
2N1482		55	1.5	35-100 @.2/4	1.4 @.2/.01	3 @.2/4	.25 @100	5.0	150	1.5		
2N1700		40	1.0	20-80 @.1/4	1 @.1/.01	2 @.1/4	.5 @60	5.0	150	1.2		
2N5784	2N5781	65	3.5	20-100 @1/2	2 @3.2/.8	1.5 @1/2	.01 @75	10	10	1.0	5 @1/1	15 @1/1
2N5785	2N5782	50	3.5	20-100 @1.2/2	2 @3.2/.8	1.5 @1.2/2	.01 @60	10	10	1.0	5 @1/1	15 @1/1
2N5786	2N5783	40	3.5	20-100 @1.6/2	2 @3.2/.8	1.5 @1.6/2	.01 @45	10	10	1.0	5 @1/1	15 @1/1
40347		40	1.5	25-100 @.45/4	1 @.45/.045	1.5 @.45/4	.001 @30	8.75				
40348		65	1.5	30-100 @.3/4	.75 @3/.075	1.3 @.3/4	.001 @60	8.75				
40349		140	1.5	25-100 @.15/4	.5 @15/.015	1.1 @.15/4	.001 @90	8.75				
2N4271		40	1.5	20-140 @.1/10	.8 @.2/.02	1.2 @.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		50		
2N3418		60	3.0	20-60 @1/2	.25 @1/1	1.2 @1/2	.0005 @80	7.0	150	40	.3 @1/1	1.2 @1/1
2N3419		80	3.0	20-60 @1/2	.25 @1/1	1.2 @1/2	.0005 @120	7.0	150	40	.3 @1/1	1.2 @1/1
2N3420		60	3.0	40-120 @1/2	.25 @1/2	1.2 @1/2	.0005 @80	7.0	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	7.0	150	40	.3 @1/1	1.2 @1/1
2N5148	2N5147	80	2.0	30-90 @1/5	.85 @2/2	1.5 @2/5	1 @100	7.0	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	7.0	70	50*		
2N5334		60	3.0	30-150 @1/2	.7 @2/2	1.5 @2/2	.001 @60	6.0	75	40		
2N5335		80	3.0	30-150 @1/2	.7 @2/2	1.5 @2/2	.001 @80	6.0	75	40		
2N4150		70	5.0	40-120 @5/5	.6 @5/5	1.5 @5/5	.01 @100	8.75		15	.2 @5/5	2.2 @5/5
2N4877		60	4.0	20-100 @4/2	1 @4/4	1.8 @4/4	.1 @70	10		30	.1 @4/4	2 @4/4
2N5152		80	2.0	30-90 @2.5/5	.75 @2.5/.25	1.45 @2.5/5	1 @100	11.7	250	40*		
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*		
2N5237		120	5.0	40-120 @5/5	.6 @5/5	1.5 @5/5	.01 @150	8.75		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		25	.5 @5/5	2 @5/5
2N5336		80	5.0	30-120 @2/2	1.2 @5/5	1.2 @2/2	.01 @75	6.0	250	30		
2N5337		80	5.0	60-240 @2/2	1.2 @5/5	1.2 @2/2	.01 @75	6.0	250	30		
2N5338		100	5.0	30-120 @2/2	1.2 @5/5	1.2 @2/2	.01 @90	6.0	250	30		
2N5339		100	5.0	60-240 @2/2	1.2 @5/5	1.2 @2/2	.01 @90	6.0	250	30		
2N5541		130	5.0	30-90 @5/5	.6 @5/5	1.5 @5/5	.01 @175	8.75		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
2N3439	2N5416	350	1.0	40-160 @.02/10	.5 @.05/.004	1.3 @.05/.004	.5 @450	10	10	15		
2N3440	2N5415	250	1.0	40-160 @.02/10	.5 @.05/.004	1.3 @.05/.004	.5 @300	10	10	15		
40321		300(V _{CE})	1.0	25-200 @.02/10	—	2 @.05/10	.005 @150	5.0				
40327		300(V _{CE})	1.0	40-250 @.02/10	—	2 @.05/10	.005 @150	5.0				
40346		175(V _{CE})	1.0	>25 @.01/10	.5 @.01/.001	1 @.01/10	.01 @200	10		10		
40412		250(V _{CE})	1.0	>40 @.03/20	—	—	1 @100	10	10	10		

DEVICE TYPE	V _{CE0} Max (V)	h _{FE} Min/Max	I _C @ (A)	f _T Min (MHz)	P _T Max (W)	Case Style
DTL 3401	40	40/120	2	0.75	2	40 TO-111 †
DTL 3402	60	40/120	2	0.75	2	40 TO-111 †
DTL 3403	80	40/120	2	0.75	2	40 TO-111 †
DTL 3404	100	40/120	2	0.75	2	40 TO-111 †
DTL 3405	40	20/60	2	0.75	2	40 TO-111 †
DTL 3406	60	20/60	2	0.75	2	40 TO-111 †
DTL 3407	80	20/60	2	0.75	2	40 TO-111 †
DTL 3408	100	20/60	2	0.75	2	40 TO-111 †
DTL 3409	120	20/60	2	0.75	2	40 TO-111 †
DTL 3421	40	40/120	2	0.75	2	9 TO-5
DTL 3422	60	40/120	2	0.75	2	40 TO-5
DTL 3423	80	40/120	2	0.75	2	40 TO-5
DTL 3424	100	40/120	2	0.75	2	40 TO-5
DTL 3425	40	20/60	2	0.75	2	40 TO-5
DTL 3426	60	20/60	2	0.75	2	40 TO-5
DTL 3427	80	20/60	2	0.75	2	40 TO-5
DTL 3428	100	20/60	2	0.75	2	40 TO-5
DTL 3429	120	20/60	2	0.75	2	40 TO-5
DTL 4451	40	20/60	1	0.5	2	20 TO-5
DTL 4452	80	20/60	1	0.5	2	20 TO-5

5 AMP NPN

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Ic(MAX) 0.05 to 10A

VCE(SUS) = 40 to 800V

Fr = 1.0 to 50 MHz

Type#	PNP Complement	VCE(SUS) (Volts)	Ic Max	hFE @Ic/VCE (Min-Max @A/V)	VCE(SAT) @Ic/Ib (V@A/A)	VBE @Ic/VCE (V@A/V)	ECEV @VCE (mA @ V)	PD@ Tc = 25°C (Watts)	fr (MHz)	ton @Ic/Ib (s@A/A)	toff @Ic/Ib (s@A/A)
2N3742	2N3743	300	.05	20-200 @ .03/10	1 @ .01/.001	1.2 @ .03/.003	.0002 @ 200	5.0	6.0	15 ^μ	
2N4926	2N4930	.05	.05	20-200 @ .03/10	1 @ .01/.001	1.5 @ .05/.003	.1 @ 200	5.0	6.0	15 ^μ	
2N4927	2N4931	250	.05	20-200 @ .03/10	1 @ .01/.001	1.5 @ .05/.003	.1 @ 250	5.0	6.0	15 ^μ	
2N5010		500(VCEr)	.5	30-180 @ .025/10	1.4 @ .025/.005	1 @ .025/.005	.006 @ 400	5.0	25	15 ^μ	
2N5011		600(VCEr)	.5	30-180 @ .025/10	1.5 @ .025/.005	1 @ .025/.005	.006 @ 500	4.0	25	15 ^μ	
2N5012		700(VCEr)	.5	30-180 @ .025/10	1.6 @ .025/.005	1 @ .025/.005	.006 @ 580	4.0	25	15 ^μ	
2N5013		800(VCEr)	.5	30-180 @ .02/10	1.6 @ .02/.005	1 @ .02/.005	.012 @ 650	4.0	25	15 ^μ	
2N5058		300	.15	35-150 @ .03/25	1 @ .03/.003	.85 @ .03/.003	.1 @ 300	5.0	10	15 ^μ	
2N5059		250	.15	30-150 @ .03/25	1 @ .03/.003	.85 @ .03/.003	.1 @ 250	5.0	10	15 ^μ	
2N5092	2N5093	350	1.0	15-250 @ .1/10	5 @ .025/.0025	1 @ .025/5	.1 @ 400	4.0	15	15 ^μ	
2N5095	2N5094	400	1.0	15-250 @ .1/10	5 @ .025/.0025	1 @ .025/5	.1 @ 600	4.0	15	15 ^μ	
2N5097	2N5096	450	1.0	15-250 @ .1/10	5 @ .025/.0025	1 @ .025/5	.1 @ 600	4.0	15	15 ^μ	
2N5098		500	1.0	15-250 @ .1/10	5 @ .025/.0025	1 @ .025/5	.1 @ 700	4.0	15	15 ^μ	
2N5099		550	1.0	15-250 @ .1/10	5 @ .025/.0025	1 @ .025/5	.1 @ 800	4.0	15	15 ^μ	

NPN TO-114

Ic(MAX) 40 to 100A

VCE(SUS) = 40 to 160V

Fr = 0.1 to 20 MHz

Type#	PNP Complement	VCE(SUS) (Volts)	Ic Max	hFE @Ic/VCE (Min-Max @A/V)	VCE(SAT) @Ic/Ib (V@A/A)	VBE @Ic/VCE (V@A/V)	ECEV @VCE (mA @ V)	PD@ Tc = 25°C (Watts)	Is/b @VCE (A@V)	fr (MHz)	ton @Ic/Ib (s@A/A)	toff @Ic/Ib (s@A/A)	Product and Application Information
2N3149		80	70	□ 10 @ 50/3	1.5 @ 50/10	2.5 @ 50/10	2 @ 80	200		0.1	10 @ 50/10	20 @ 50/10	5251 Family Double Epitaxial Process. Ultra-sonically Bonded Leads. Case 600. High Current, High Speed Power Switch and Amplifier Military Usage.
2N3150		100	70	□ 10 @ 50/3	1.5 @ 50/10	2.5 @ 50/10	2 @ 100	200		0.1	10 @ 50/10	20 @ 50/10	
2N3151		150	70	□ 10 @ 50/3	1.5 @ 50/10	2.5 @ 50/10	2 @ 150	200		0.1	10 @ 50/10	20 @ 50/10	
2N4950		60	70	□ 10 @ 50/3	1.5 @ 50/10	2.5 @ 50/10	2 @ 60	200		0.1	10 @ 50/10	20 @ 50/10	
2N5489		100	40	15-60 @ 40/6	1.5 @ 40/8	2.5 @ 40/6	2 @ 125	200		0.5	10 @ 50/10	20 @ 50/10	
2N4865		80	90	10-40 @ 70/5	2.5 @ 70/7	2.5 @ 70/7	5 @ 100	200	10 @ 20	10	2 @ 70/7	2 @ 70/7	
2N4866		120	90	10-40 @ 70/5	2.5 @ 70/7	2.5 @ 70/7	5 @ 140	200	10 @ 20	10	2 @ 70/7	2 @ 70/7	
2N5250		100	90	10-40 @ 70/5	2.5 @ 70/7	2.5 @ 70/7	5 @ 125	200	10 @ 20	10	2 @ 70/7	2 @ 70/7	
2N5251		150	90	10-40 @ 70/5	2.5 @ 70/7	2.5 @ 70/7	5 @ 180	200	10 @ 20	10	2 @ 70/7	2 @ 70/7	
2N5587		120	80	10-30 @ 80/2	2 @ 80/8	2.5 @ 80/8	2 @ 160	200	10 @ 20	0.5	2 @ 70/7	2 @ 70/7	
2N5588		160	80	10-30 @ 80/2	2 @ 80/8	2.5 @ 80/8	2 @ 160	200	10 @ 20	0.5	2 @ 70/7	2 @ 70/7	
2N5927		120	100	10-40 @ 70/2	75 @ 70/7	1.5 @ 70/2	2 @ 150	200		1.0	2.5 @ 50/10	5.5 @ 50/10	