

# DIODE TRANSISTOR CO., INC.

(201) 686-0400 • Telex: 139-385 • Outside NY & NJ area call TOLL FREE 800-528-4581  
 FAX No. 201-575-5883

Ic(MAX) 1.0 to 7.0A

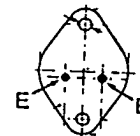
VCE(SUS) = 35 to 400V

Fr = .75 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)	ICEV @VCE (mA @ V)	Pd@ Tc = 25°C T = 1sec (Watts)	βIb/b @VCE (A@V)	fr (MHz)	tON @Ic/Ib (s@A/A)	tOFF @Ic/Ib (s@A/A)
2N5427		80	7.0	30-120@2/2	1.2@7/7	1.2 <sup>3</sup> @2/2	.01@75	40	5@8	30	.2@2/2	2.2@2/2
2N5428		80	7.0	60-240@2/2	1.2@7/7	1.2 <sup>3</sup> @2/2	.01@75	40	5@8	30	.2@2/2	2.2@2/2
2N5429		100	7.0	30-120@2/2	1.2@7/7	1.2 <sup>3</sup> @2/2	.01@90	40	5@8	30	.1@2/2	2.2@2/2
2N5430		100	7.0	60-240@2/2	1.2@7/7	1.2 <sup>3</sup> @2/2	.01@90	40	5@8	30	.2@2/2	2.2@2/2
2N4296		250	1.0	50-150@.05/10	.9@.05/.005	.9@1/10	.1 <sup>3</sup> @350	20		20	7@.1/01	10@.1/01
2N4297		250	1.0	75-300@.05/10	.75@.05/.005	.9@.1/10	.1 <sup>3</sup> @500	20		20	7@.1/01	10@.1/01
2N4298		350	1.0	25-75@.05/10	.9@.05/.005	.9@.1/10	.1 <sup>3</sup> @500	20		20	7@.1/01	10@.1/01
2N4299		350	1.0	50-150@.05/10	.75@.05/.005	.9@.1/10	.1 <sup>3</sup> @500	20		20	7@.1/01	10@.1/01
2N3583	2N6211	250(VCE)	1.0	40-200@.5/10	5@1/125	1.4@1.0/10	1.0@225	35	.35@100	10		
2N3584	2N6212	300(VCE)	5.0	25-100@1/10	.75@1.0/.125	1.4 <sup>3</sup> @1/1	1.0@300	35	.35@100	10	3@1.0/1	7@1.0/1
2N3585	2N6213	400(VCE)	5.0	25-100@1/10	.75@1.0/.125	1.4 <sup>3</sup> @1/1	1.0@400	35	.35@100	10	3@1.0/1	7@1.0/1
2N3738		225	.25	40-200@.1/10	2.5@.1/.025	1@.1/10	.5@250	20	.2@100	10		
2N3739		300	.25	40-200@.1/10	2.5@.25/.025	1@1/10	.5@300	20	.2@100	10		
2N4240		400(VCE)	5.0	30-150@.75/10	1@.75/.075	1.8 <sup>3</sup> @.75/.075	2@400	35	.35@100	15	.5@.75/.075	9@.75/.075
40313		300(VCE)	2.0	4@.5/10	—	1.5@.1/10	10@300	35	.15@150			
40318		300(VCE)	2.0	50@.5/10	—	1.5@.5/10	5@150	35	.10@150			
40322		300(VCE)	2.0	75@.5/10	—	—	10@150	35	.10@150			
40328		300(VCE)	2.0	20@/10	—	1.5@.1/10	10@150	35	.10@150			
40850		400(VCE)	2.0	25@.75/10	2@2/4	2 <sup>3</sup> @2/4	.2@2/4	35	.35@100			
2N5660		200	1.0	40-120@.5/5	.4@1/1	1.2 <sup>3</sup> @1/1	.001 <sup>3</sup> @250	35		20	.25@.5/.015	.85@.5/.015
2N5661		300	1.0	25-75@.5/5	.4@1/1	1.2 <sup>3</sup> @1/1	.001 <sup>3</sup> @400	35		20	.25@.5/.025	1.2@.5/.015
2N6077		275	7.0	12-70@1.2/1	.5@1.2/2	1.9 <sup>3</sup> @3/6	5@250	45	.9@50	1.0	.75@1.2/2	5.75@1.2/2
2N6078		250	7.0	12-70@1.2/1	.5@1.2/2	2 <sup>3</sup> @5/1	.05@250	45	.9@50	1.0	.75@1.2/2	5.75@1.2/2
2N6079		350	7.0	12-50@1.2/1	.5@1.2/2	2 <sup>3</sup> @4/8	.5@450	45	.9@50	1.0	.75@1.2/2	5.75@1.2/2
2N6233		225	5.0	25-125@1/5	.5@1/1	1@1/5	.1 <sup>3</sup> @250	50	1.1@45	20	.5@1/1	4@1/1
2N6234		275	5.0	25-125@1/5	.5@1/1	1@1/5	.1 <sup>3</sup> @300	50	1.1@45	20	.5@1/1	4@1/1
2N6235		325	5.0	25-125@1/5	.5@1/1	1@1/5	.1 <sup>3</sup> @350	50	1.1@45	20	.5@1/1	4@1/1
40851		350	7.0	12@1.1/1	3@4/8	2 <sup>3</sup> @4/8	.5@450	45	.9@50			
2N5468		400	3.0	15-60@3/5	.5@3/6	1.5 <sup>3</sup> @3/6	.25@500	70	.875@80	2.5		
2N5469		400	3.0	15-60@3/5	.5@3/6	1.5 <sup>3</sup> @3/6	.25@700	70	.875@80	2.5		
2N5664		200	3.0	40-120@1/5	.4@3/3	1.2 <sup>3</sup> @3/3	.001 <sup>3</sup> @250	52.5		20	.25@1/.03	1.5@1/.03
2N5665		300	3.0	.40-120@1/5	.4@3/6	1.2 <sup>3</sup> @3/6	.00 <sup>3</sup> @400	52.5		20	.25@1/.05	2@1/.05

TO-3

E - EMITTER  
 B - BASE  
 C - COLLECTOR



Ic CONT (A) Max	Vce0 (V)	VceV (V)	DARLING-TON	SWITCH-ING	DEVICE TYPE		RESISTIVE SWITCHING			fr Min (MHz)	Pd (Case) Watts @ 25°C		
					NPN	PNP	ts Max (μsec)	tr Max (μsec)	Ic (A)				
3	250			✓	2N5838		8/40	3	1 TYP	0.4 TYP	3	5	100
					2N5839		10/50	2	1 TYP	0.4 TYP	3	5	100
					2N5840		10/50	2	1 TYP	0.4 TYP	3	5	100
3.5	325			✓	2N3902		30/90	1	1.2 TYP	0.1 TYP	1	2.8	100
					2N6542		7/35	3	4	0.8	3	6	100
5	400	650@		✓	2N6543		7/35	3	4	0.8	3	6	100
					BUX46		5 Min	2.5	3	0.8	2.5	85	
					BU126		10 Min	2.5	1 TYP	0.15 TYP	2.5	75	
6	350	750@		✓	BUX97		10/70	1	5 TYP	1 TYP	1	60	
					BU326		25 TYP	1	3.5	0.5	2.5	75	
					BUX82		15 TYP	2.5	3.5	0.5	2.5	60	
					BUX97A		10/70	1	5 TYP	1 TYP	1	60	
					BU326S		3.5 Min	4	1.8	0.3	2.5	20 TYP	60
					BU326A		25 TYP	1	3.5	0.5	2.5	75	
					BUX97B		10/70	1	5 TYP	1 TYP	1	60	