

13. DARLINGTON TRANSISTORS

IN ORDER OF (1) MIN DERATING FACTOR
(2) MIN hFE (3) IC TEST (4) TYPE No.

LINE No.	TYPE No.	POL. & MAT. N-NPN P-PNP	MIN. DERATE J TO C (W/°C)	hFE		I-hfe		ABSOLUTE MAX RATINGS @ 25°C						MAX COLL (CASE) DISS-Pc (W)	MAX X T °C	MAX IC @ MAXVCB @ 25°C (A)	FT (Hz)	MAX SAT RES (Ω)	S T U R U C	DWG No	L C O A D E
				MIN	MAX	VCE	IC	IC	IB	IC	IB	IC	IB								
1	2N6358	NSI	1.2	1.5k	10k#	5.0	4.0	20	1.0	20	5.0	80	5.0	80	150	2.0m#	8.0MΔ	175m	D	T03	KF
2	DTS40621	NSI	1.3	75		5.0	10	20	5.0	20	5.0	7.0	600	100	250uΔ	8.0MΔ	175m	D	T03	KF	
3	DTS40661	NSI	1.3	75		5.0	10	20	5.0	20	5.0	7.0	600	100	250uΔ	8.0MΔ	175m	D	T03	KF	
4	DTS40721	NSI	1.3	75		5.0	10	20	5.0	20	5.0	2.0	600	100	250uΔ	8.0MΔ	175m	D	T03	KF	
5	DTS40741	NSI	1.3	75		5.0	10	20	5.0	20	5.0	2.0	600	100	250uΔ	8.0MΔ	175m	D	T03	KF	
6	DTS4010	NSI	1.3	150		5.0	1.0	10	2.0	10	2.0	5.0	250	100	250uΔ	8.0MΔ		D	Y204a	C	
7	DTS4025	NSI	1.3	150		5.0	5.0	10	2.0	10	2.0	5.0	400	100	250uΔ	8.0MΔ	360m	D	Y204a	C	
8	DTS4026	NSI	1.3	150		5.0	5.0	10	2.0	10	2.0	5.0	600	100	250uΔ	8.0MΔ	360m	D	Y204a	C	
9	DTS40671	NSI	1.3	150		5.0	10	20	5.0	20	5.0	7.0	600	100	250uΔ	8.0MΔ	100m	D	T03	KF	
10	DTS40751	NSI	1.3	150		5.0	10	20	5.0	20	5.0	2.0	600	100	250uΔ	8.0MΔ	115m	D	T03	KF	
11	DTS40391	NSI	1.3	200		5.0	3.0	15	4.0	15	4.0	20	400	100	250uΔ	8.0MΔ	200m	DM	Y204a	KF	
12	DTS40591	NSI	1.3	200		5.0	3.0	15	4.0	15	4.0	20	600	100	250uΔ	8.0MΔ	200m	DM	Y204a	KF	
13	DTS40411	NSI	1.3	250		5.0	3.0	15	4.0	15	4.0	20	400	100	250uΔ	8.0MΔ	148m	DM	Y204a	KF	
14	DTS40611	NSI	1.3	250		5.0	3.0	15	4.0	15	4.0	20	600	100	250uΔ	8.0MΔ	148m	DM	Y204a	KF	
15	MJ10015	NSI	1.4	10		5.0	40	50	10	50	10	8.0	400	250	250uΔ	8.0MΔ	110m	DM	F49b	KF	
16	MJ10016	NSI	1.4	10		5.0	40	50	10	50	10	8.0	500	250	250uΔ	8.0MΔ	110m	DM	F49b	KF	
17	PTC70001	NSI	1.4	15		5.0	50	50	50	50	8.0	350	250	250	1.0mΔ	.04		DM	T03	C	
18	PTC70011	NSI	1.4	15		5.0	50	50	50	50	8.0	400	250	250	1.0mΔ	.04		DM	T03	C	
19	PTC70021	NSI	1.4	15		5.0	50	50	50	50	8.0	450	250	250	1.0mΔ	.04		DM	T03	C	
20	PTC70031	NSI	1.4	15		5.0	50	50	50	50	8.0	550	250	250	1.0mΔ	.04		DM	T03	C	
21	MJ100241	N	1.4	50	600	5.0	5.0	20	10	20	10	8.0	850	250	25mΔ			DM	F59	C	
22	MJ100251	N	1.4	50	600	5.0	5.0	20	10	20	10	8.0	850	250	25mΔ			DM	F59	C	
23	MJ100221	N	1.4	50	600	5.0	10	40	20	40	20	8.0	350	250	25mΔ			DM	T03	C	
24	MJ100231	N	1.4	50	600	5.0	10	40	20	40	20	8.0	400	250	25mΔ			DM	T03	C	
25	MJ100201	NSI	1.4	75	1.0k	5.0	1.5	80	20	80	20	200	250	250	5.0mΔ			DM	T03	C	
26	MJ100211	NSI	1.4	75	1.0k	5.0	1.5	80	20	80	20	250	250	250	5.0mΔ			DM	T03	C	
27	TIP666	NSI	1.5	40	800	5.0	2.5	10	2.0	10	2.0	400	8.0	150	50uΔ	10MΔ	380m#	M	T03	KF	
28	TIP667	NSI	1.5	40	800	5.0	2.5	10	2.0	10	2.0	450	8.0	150	50uΔ	10MΔ	380m#	M	T03	KF	
29	TIP668	NSI	1.5	40	800	5.0	2.5	10	2.0	10	2.0	550	8.0	150	50uΔ	10MΔ	380m#	M	T03	KF	
30	TIP6631	NSI	1.5	500	10k	5.0	5.0	20	5.0	20	5.0	400	8.0	300	250uΔ	10MΔ	150m#	DM	T03	KF	
31	TIP6641	NSI	1.5	500	10k	5.0	5.0	20	5.0	20	5.0	450	8.0	350	250uΔ	10MΔ	150m#	DM	T03	KF	
32	TIP6651	NSI	1.5	500	10k	5.0	5.0	20	5.0	20	5.0	500	8.0	400	250uΔ	10MΔ	150m#	DM	T03	KF	
33	PMD17K40	PSI	1.5	800	20k	5.0	10	20	500m	40	5.0	40	225	#	200uΔ		200m	P-E	T03	C	
34	PMD17K60	PSI	1.5	800	20k	5.0	10	20	500m	60	5.0	60	225	#	200uΔ		200m	P-E	T03	C	
35	PMD17K80	PSI	1.5	800	20k	5.0	10	20	500m	80	5.0	80	225	#	200uΔ		200m	P-E	T03	C	
36	PMD17K100	PSI	1.5	800	20k	5.0	10	20	500m	100	5.0	100	225	#	200uΔ		200m	P-E	T03	C	
37	PMD16K40	NSI	1.5	1.0k	20k	5.0	10	20	500m	40	5.0	40	225	#	200uΔ		200m	N-E	T03	C	
38	PMD16K60	NSI	1.5	1.0k	20k	5.0	10	20	500m	60	5.0	60	225	#	200uΔ		200m	N-E	T03	C	
39	PMD16K80	NSI	1.5	1.0k	20k	5.0	10	20	500m	80	5.0	80	225	#	200uΔ		200m	N-E	T03	C	
40	PMD16K100	NSI	1.5	1.0k	20k	5.0	10	20	500m	100	5.0	100	225	#	200uΔ		200m	N-E	T03	C	
41	MJ11028	NSI	1.7	1.0k	18k	5.0	25	50	50	60	5.0	60	300	300	2.0m*		100m	N-E	F49b	KF	
42	MJ11029	PSI	1.7	1.0k	18k	5.0	25	50	50	60	5.0	60	300	300	2.0m*		100m	N-E	F49b	KF	
43	MJ11030	NSI	1.7	1.0k	18k	5.0	25	50	50	60	5.0	90	300	300	2.0m*		100m	N-E	F49b	KF	
44	MJ11031	PSI	1.7	1.0k	18k	5.0	25	50	50	60	5.0	90	300	300	2.0m*		100m	N-E	F49b	KF	
45	MJ11032	NSI	1.7	1.0k	18k	5.0	25	50	50	60	5.0	120	300	300	2.0m*		100m	N-E	F49b	KF	
46	MJ11033	PSI	1.7	1.0k	18k	5.0	25	50	50	60	5.0	120	300	300	2.0m*		100m	N-E	F49b	KF	
47	MT6002Δ	N	2.0	100	#	4.0	100	50	50	60	5.0	10	120	300	2.0m*		25m	M	S23	+	
48	PT5000	N	2.0	175	#	4.0	250	250	250	25	25	60	10	80	325	5.0m#	1.0k	M			
49	PT5001	N	2.0	175	#	4.0	250	250	250	25	25	60	10	80	350	5.0m#	1.0k	M			
50	MT5000	N	2.0	500	#	4.0	125	125	125	80	80	10	10	80	350	5.0m#	12m#	M	S18	KF	
51	MT5001	N	2.0	500	#	4.0	125	125	125	80	80	10	10	80	350	5.0m#	12m#	M	S18	KF	
52#	2SD8321	NSI	2.8	700	∅	5.0	30	30	30	3.0	500	5.0	400	400	100u		40m	DM	F51	A	
53#	2SD845	NSI	2.8	150	∅	5.0	30	30	30	2.0	600	5.0	450	350	600u			DM	F51	A	
54#	2SD898	NSI	2.8	150	∅	5.0	30	30	30	2.0	400	5.0	350	350	600u			DM	F51	A	
55#	2SD4651	Si	3.2	100	200 ∅	5.0	50	50	50	3.0	500	4.0	400	400	1.0m	6.5M	50m	DM	F40	KC	
56#	2SD4681	Si	3.2	100	200 ∅	5.0	50	50	50	3.0	600	4.0	450	400	1.0m	6.5M	50m	DM	F40	KC	
57#	2SD468A	NSI	3.2	150	∅	5.0	50	50	50	3.0	800	6.0	450	400	1.0m			DM	F51	A	
58#	2SD848A	NSI	3.2	150	∅	5.0	50	50	50	3.0	600	6.0	450	400	1.0m			DM	F51	A	
59#	2SD898	NSI	3.2	150	∅	5.0	50	50	50	3.0	400	6.0	350	400	1.0m			DM	F51	A	
60#	2SD696A	NSI	3.2	150	∅	5.0	50	50	50	3.0	400	6.0	350	400	1.0m			DM	F51	A	
61	PT5002	N	4.0	100	#	4.0	500	500	25	25	60	10	80	700	10m#	1.0k	5.0m	M	S20	KA	
62	PT5003	N	4.0	100	#	4.0	500	500	25	25	80	10	10	700	10m#	1.0k	5.0m	M	S20	KA	
63	MT5002	N	4.0	500	#	4.0	250	250	250	80	80	10	10	700	10m#	8.0m#		M	S20	KA	
64	MT5003	N	4.0	500	#	4.0	250	250	250	80	80	10	10	700	10m#	8.0m#		M	S20	KA	
65	PTC80801	NSI	5.0	20	∅	5.0	100	100	10	10	350	5.0	400	250	1.0mΔ	.02		DM	X188		
66	PTC80811	NSI	5.0	20	∅	5.0	100	100	10	10	400	5.0	400	250	1.0mΔ	.02		DM	X188		
67	PTC80821	NSI	5.0	20	∅	5.0	100	100	10	10	450	5.0	450	250	1.0mΔ	.02		DM	X188		
68	PTC80831	NSI	5.0	20	∅	5.0	100	100	10	10	500	5.0	500	250	1.0mΔ	.02		DM	X188		
69	MPS-A28	N	5.0	10k	∅	5.0	10m	500m			80	12	80	625m	100n	200M		DM	T092	A	
70	MPS-A29	N	5.0	10k	∅	5.0	10m	500m			100	12	100	625m	100n	200M		DM	T092	A	
71	MT6006	N	5.9	100	#	4.0	300	150	150	150	450	10	400	1.1k	2.0m#	10m		AN	S24	A	
72	MM6427	NSI	7.1	10k	#	5.0	100m	300m			50	12	40	375m∅	100n	125MΔ	15 #	DM	X177	C	
73#	2SD847A1	NSI	7.7	100	∅	5.0	100	100	8.0	800	5.0	600	5.0	600	770	2.0m	100k	DM	X177	C	
74#	2SD5481	NSI	7.7	150	∅																