

# 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-PNP P-PNP	1   MIN. DERATE J TO C (W/C)	hFE		t-hfe		ABSOLUTE MAX RATINGS @ 25°C					MAX COLL (CASE) DISS-Pc (W)	M A X T °C	MAX ICBO @ MAXVCB @ 25°C (A)	fT (Hz)	MAX SAT RES (Ω)	S T U R R U E	DWG No	L C O A D E	
				2   MIN	MAX	TEST		IC	IB	BVCBO	BVEBO	BVCEO									
				∅-TYP	∅-TYP	VCE ∅VCB (V)	IC ∅IB (A)	∅-IE (A)	∅-IE (A)	(V)	(V)	∅BVCEC (V)									
1#	BDT60	PSi						4.0	100m	80	5	80	50	\$J				E	Y220	D	
2#	BDT60A	PSi						4.0	100m	80	5	80	50	\$J				E	Y220	D	
3#	BDT60B	PSi						4.0	100m	100	5	100	50	\$J				E	Y220	D	
4#	BDT60C	PSi						4.0	100m	120	5	120	50	\$J				E	Y220	D	
5#	BDT61	NSi						4.0	100m	60	5	60	50	\$J				E	Y220	D	
6#	BDT61A	NSi						4.0	100m	80	5	80	50	\$J				E	Y220	D	
7#	BDT61B	NSi						4.0	100m	100	5	100	50	\$J				E	Y220	D	
8#	BDT61C	NSi						4.0	100m	120	5	120	50	\$J				E	Y220	D	
9#	BU910	NSi						6.0	1.0		5.0	350	60	\$J	1.0m\$			PE	Y220	D	
10#	BU911	NSi						6.0	1.0		5.0	400	60	\$J	1.0m\$			PE	Y220	D	
11#	BU912	NSi						6.0	1.0		5.0	450	60	\$J	1.0m\$			PE	Y220	D	
12#	BU920	NSi						10	1.0		5.0	350	120	\$J	1.0m\$			E	TO3	C	
13#	BU921	NSi						10	1.0		5.0	400	120	\$J	1.0m\$			E	TO3	C	
14#	BU922	NSi						10	1.0		5.0	450	120	\$J	1.0m\$			E	TO3	C	
15#	BU930	NSi						15	1.0		5.0	350	150	\$J	1.0m\$			E	TO3	C	
16#	BU931	NSi						15	1.0		5.0	400	150	\$J	1.0m\$			E	TO3	C	
17#	BU932	NSi						15	1.0		5.0	450	150	\$J	1.0m\$			E	TO3	C	
18	ET6060	NSi						20	2.0	350		300	125					Δ	TO3	A	
19	ET6061	NSi						20	2.0	400		350	125					Δ	TO3	A	
20	ET6062	NSi						20	2.0	450		400	125					Δ	TO3	A	
21	ET10015	NSi						50	10	600		400	250					Δ	TO3	A	
22	ET10016	NSi						50	10	700		500	250					Δ	TO3	A	
23	ET10020	NSi						60	4.0	300		200	250					Δ	TO3	A	
24	ET10021	NSi						60	4.0	350		250	250					Δ	TO3	A	
25#	ON630	NSi			5.0k∅	5.0	10m	500m		40	10	30	625m	\$J	100n\$	125M			PE	TO92	A
26#	BC618#	NSi		4.0 ∅		5.0	10	1.0		80	12	55	625m	\$J	50n				PE	TO92	A
27	DTS4060†	NSi		8.0		5.0	15	15			20	600	100	\$J		8.0MΔ	120m	D	Y204a	KF∅	
28	D66DV5†	N		25	100	5.0	150	50	10		8.0	400	125	\$J	2.5m∅					X194	D
29	D66DV6†	N		25	100	5.0	150	50	10		8.0	450	125	\$J	2.5m∅					X194	D
30	D66DV7†	N		25	100	5.0	150	50	10		8.0	500	125	\$J	2.5m∅					X194	D
31	D67DE5†	N		25	100	5.0	150	100	10		8.0	400	312	\$J	2.5m∅					X193	D
32	D67DE6†	N		25	100	5.0	150	100	10		8.0	450	312	\$J	2.5m∅					X193	D
33	D67DE7†	N		25	100	5.0	150	100	10		8.0	500	312	\$J	2.5m∅					X193	D
34#	BU322	NSi		30		2.7∅	7.0	7.0			450	6.0	400	100	\$J	5.0m				TO3	C
35#	BU322A	NSi		30		2.7∅	7.0	7.0			525	6.0	475	100	\$J	5.0m				TO3	C
36#	BU323	NSi		30		2.7∅	10	10			450	6.0	400	125	\$J	5.0m				TO3	C
37#	BU323A	NSi		30		2.7∅	10	10			525	6.0	475	125	\$J	5.0m				TO3	C
38#	BUV37	N		60			10	15				400	125							B46	C
39	ESM855†	NSi		60 #		5.0	10	20	4.0		8.0	400	150	\$J	0.5m*				Δ	TO3	
40	ESM856†	NSi		60 #		5.0	10	20	4.0		8.0	400	150	\$J	0.5m*				Δ	TO3	
41	ESM870†	NSi		60 #		5.0	20	40	6.0		5.0	400	200	\$J	1.0m*				Δ	TO3	
42	ESM871†	NSi		60 #		5.0	20	40	6.0		5.0	400	200	\$J	1.0m*				Δ	TO3	
43#	BDT20	P		100		3.0	50m	5.0	100m	180	5.0	130	40	\$J						Y220	D
44#	DT4335	NSi		100	1.0k	2.0∅	5.0	6.0		300	5.0	300	100	\$J	5.0m					TO3	C
45#	DT4336	NSi		100	1.0k	2.0∅	5.0	6.0		500	5.0	500	100	\$J	5.0m					TO3	C
46#	DT5335	NSi		100	1.0k	2.0∅	5.0	10		300	5.0	300	100	\$J	5.0m					TO3	C
47#	DT5336	NSi		100	1.0k	2.0∅	5.0	10		500	5.0	500	100	\$J	5.0m					TO3	C
48	NTD565	NSi		100		1.5∅	6.0	8.0		500	8.0	400	100	\$J	100u					TO3	C
49	SML2175	N-Si		100	1.0k	5.0	10	15 #		400	6.0	400	#	\$J	100u	20MΔ			PE	Y220	D
50#	SML4009	NSi		100 #	250 ∅	2.0	50	50	10	100	10	60	250	\$J	10u	50MΔ			PE	TO3	D
51#	2SD978	NSi		120		1.5	3.0	5.0		450	6.0	350	40 ∅	\$J	500u		625m		PL	B56	C
52#	BUX30†	NSi		150		3.0	5.0	15 #	2.5 #		400	400	90 ∅	\$J	300uΔ					TO3	C
53	SML2167	N-Si		200		5.0	5.0	15		400	6.0	400	#	\$J	500u	20M				TO3	C
54	DTS4040†	NSi		250		5.0	3.0	15			20	400	100	\$J		8.0MΔ	120m	D	Y204a	KF∅	
55	GT811†	N-Si		300 ∅		5.0	5.0	8.0	2.0	330	6.0	400	#	\$	100u\$				PE	Y220	D
56	GT812†	N-Si		300 ∅		5.0	5.0	8.0	2.0	400	6.0	400	#	\$	100u\$				PE	Y220	D
57#	BSS36	NSi		400		1.6	500m					600m∅		\$J						TO12	Q
58	DTS4045†	NSi		500		5.0	3.0	15			20	400	100	\$J		8.0MΔ	110m	D	Y204a	KF∅	
59#	2SD1044	NSi		700	10k	4.0	1.0	6.0		100	6.0	80	60	\$J	60	7.0M			DM	B38	D
60#	BD266B	PSi		750		3.0	3.0			100		100	60	\$J		7.0M			E	Y220b	KC
61#	MPSD04	NSi		1.0k		5.0	10m	300m				25 ∅	625m			100MΔ				TO92	A
62#	MPSD54	NSi		1.0k		5.0	10m	300m				25 ∅	625m			100MΔ				TO92	A
63#	BDW91	NSi		1.0k #	3.0k∅	5.0	2.0	4.0	100m	180	5.0	180	10	\$J	50u				E	TO39	A
64#	BDW92	NSi		1.0k #	3.0k∅	5.0	2.0	4.0	100m	180	5.0	180	10	\$J	50u				DM	TO3	KF∅
65#	2SD523	NSi		1.0k		3.0	3.0	7.0		60	5.0	60	50	\$J	100u					Y220	D
66	SML2174	N-Si		1.0k	20k	3.0	3.0	15		100	6.0	80	80	\$J	100u	20MΔ				Y220	D
67	SML2184	P-Si		1.0k	20k	3.0	3.0	15		100	6.0	80	80	\$J	100u	20MΔ				Y220	D
68#	2SD524	NSi		1.0k		3.0	5.0	10	100m	80	5.0	80	75	\$J	100u				DM	TO3	KF∅
69	HS5305	NSi		2.0k	20k	5.0	2.0m			25	12	25	900m	\$J	100n	60M	7.0		PE	R198	B
70	HS5307	NSi		2.0k	20k	5.0	2.0m			40	12	40	900m	\$J	100n	60M	7.0		PE	R198	B
71#	2SD892	N-Si		2.0k	20k	10	0.5	0.5		30	5.0	25	750m	\$J	100n				PE	TO92	B
72#	2SD892A	N-Si		2.0k	20k	10	0.5	0.5		30	5.0	25	750m	\$J	100n				PE	TO92	B
73#	2SD893	N-Si		2.0k	20k	10	1.0	1.0		60	5.0	25	750m	\$J	100n				PE	TO92	B
74#	2SD893A	N-Si		2.0k	20k	10	1.0	1.0		70	5.0	40	750m	\$J	100n				PE	TO92	B
75	NTD4051	NSi		2k	12k	2.0∅	1.0	2.0		50		70	15	\$J	10u					TO39	
76	NTD4061	NSi		2k	12k	2.0∅	1.0	2.0		100		100	15	\$J	10u					TO39	
77	NTD558†	NSi		2k	12k	2.0∅	1.0	2.0		90		70	10	\$J	10u					Y221	X
78	NTD560†	NSi		2k	15k	2.0∅	3.0	5.0		150		100	50	\$J	10u					Y220	
79	NTD601	PSi		2k	15k	-2∅	3.0	5.0		100		-1k∅	50	\$J	1.0u					Y220	
80	PT7004	NSi		2.0k		5.0		1.5				30	10							B15b	B
81#	2SD894	NSi		4.0k		2	500m	7.0		30	10	25	1.0	\$	0.1u∅	120M			PE	B52	B
82#	2SD1111	NSi		5.0k		2	20m	70													