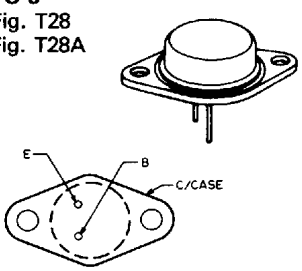
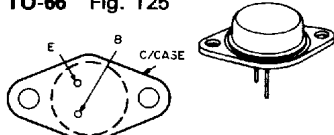
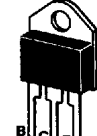

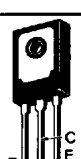
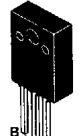
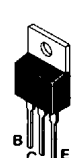








# Darlington Power Transistors Maximum Ratings at $T_C = 25^\circ\text{C}$

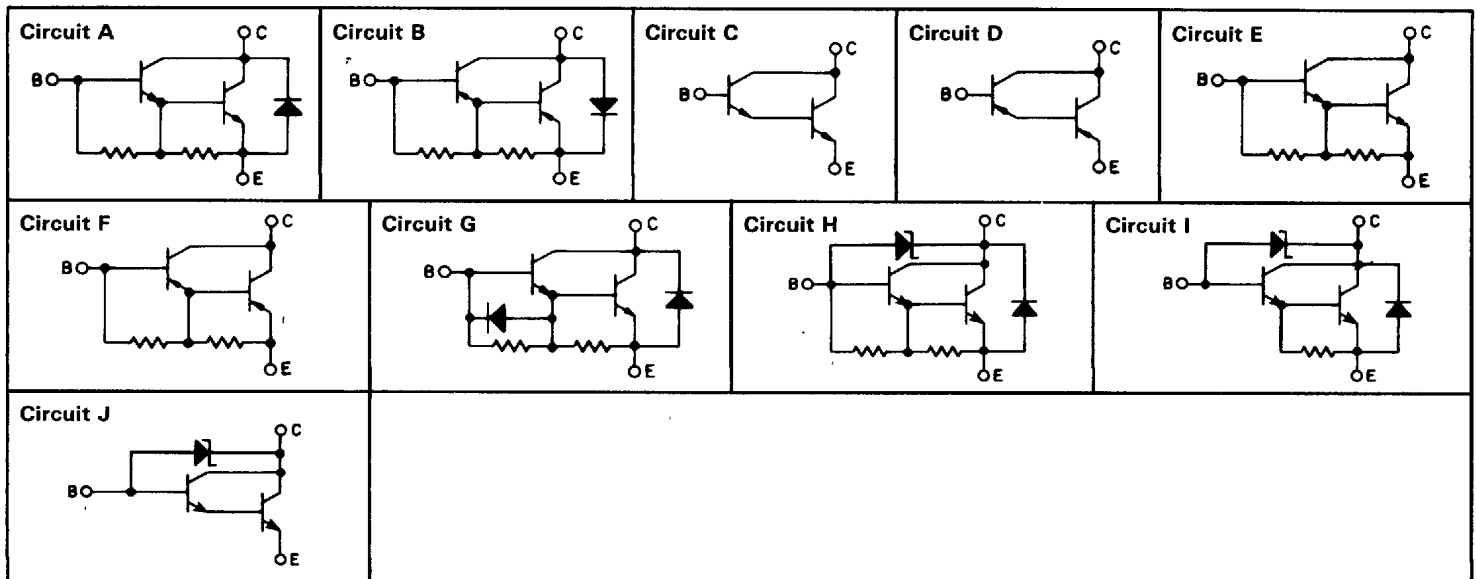
Description		Collector To Base Volts $V_{CBO}$	Collector To Emitter Volts $V_{CEO}$	Emitter To Base Volts $V_{EBO}$	Max. Collector Current $I_C$ Amps	Max. Base Current $I_B$ mA	Max. Device Diss. $P_D$ Watts	Typ Current Gain $h_{FE}$	NPN/PNP Equivalent Circuit	Package
NPN	PNP									Case/Fig./Basing
ECG243	ECG244	80	80	5	8	120	100	3,000	A/B	<b>TO-3</b> Fig. T28 Fig. T28A 
ECG245	ECG246	80	80	5	10	200	150	4,000	A/B	
ECG247	ECG248	100	100	5	12	200	150	3,500	A/B	
ECG249	ECG250	100	100	5	16	500	150	3,500	A/B	
ECG251	ECG252	100	100	5	20	500	160	2,400	A/B	
ECG2349	ECG2350	120	120	5	50	2000	300	1,000 min	A/B	
ECG97	---	500	400	8	10	2500	150	40 min	G	
ECG99	---	600	400	8	50	10,000	250	25 min	G	
ECG98	---	700	500	8	20	2500	175	40 min	G	
ECG274	ECG275	80	80	5	4	80	50	3,000	A/B	<b>TO-66</b> Fig. T25 
ECG256	---	450	400	8	20	2500	150	30 min	G	<b>TO-3P (TO-218)</b> Fig. T48 TAB CONNECTS TO COLLECTOR 
ECG270	ECG271	100	100	5	10	500	125	1,000 min	E/F	
ECG2316	---	500	450	5	10	5000	105	100 min	A	
ECG2317	---	500	450	5	15	1000	105	40 min	A	
ECG214	---	70	60	6	10	---	60	2,000 min	A	<b>TO-3PJ</b> Fig. T48-1 TAB CONNECTS TO COLLECTOR 
ECG215	---	110	100	6	8	---	60	1,500 min	A	
ECG2335	---	60 ± 15	60 ± 15	6	5	---	80	2,000 min	J	
ECG257	ECG258	80	80	5	5	100	70	750 min	A/B	<b>TO-127</b> Fig. T46 METAL CONTACT CONNECTS TO COLLECTOR 
ECG259	ECG260	100	100	5	8	120	75	2,500	A/B	
ECG2326	---	150	100	7	8	800	40	3,000 min	A	<b>TO-220F</b> Fig. T42-1 METAL CONTACT CONNECTS TO COLLECTOR 
ECG2332	---	60 ± 10	60 ± 10	6	2	400	20	4,000 typ	H	<b>TO-220</b> Fig. T41 TAB CONNECTS TO COLLECTOR 
ECG2334	---	60 ± 10	60 ± 10	6	5	500	40	4,000 typ	H	
ECG261	ECG262	100	100	5	8	250	65	1,000 min	A/B	
ECG263	ECG264	100	100	5	10	250	65	1,000 min	A/B	
ECG2343	ECG2344	120	120	5	12	500	125	1,000 min	A/B	
ECG2315	---	400	200	6	8	2000	60	100 min	G	
ECG2336	---	60 ± 10	60 ± 10	7	8	---	45	2,000 min	I	<b>TO-220J</b> Fig. T41-1 
ECG2338	---	60 ± 10	60 ± 10	8	2	200	10	4,000 min	H	<b>TO-126</b> Fig. T45 METAL CONTACT CONNECTS TO COLLECTOR 
ECG253	ECG254	80	80	5	4	100	40	2,000	A/B	

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# Darlington Power Transistors (cont'd)

Description		Collector To Base Volts BV <sub>CB0</sub>	Collector To Emitter Volts BV <sub>CEO</sub>	Emitter To Base Volts BV <sub>EB0</sub>	Max. Collector Current I <sub>C</sub> Amps	Max. Base Current I <sub>B</sub> mA	Max. Device Diss. P <sub>D</sub> Watts	Typ Current Gain h <sub>FE</sub>	NPN/PNP Equivalent Circuit	Package
NPN	PNP									Case/Fig./Basing
ECG2345	ECG2346	120	120	5	6	150	60	750 min	A/B	SOT-82 Fig. T45-2  METAL CONTACT CONNECTS TO COLLECTOR 
ECG2340	---	60 ± 10	60 ± 10	7	8	---	45	2,000 min	I	TO-126N Fig. T45-1  METAL CONTACT CONNECTS TO COLLECTOR 
ECG2351	ECG2352	100	80	5	4	---	15	1,000 min	A/B	
ECG265	---	50	50	13	0.5	---	6.25	10,000 min	C	TO-202 Fig. T38  TAB CONNECTS TO COLLECTOR 
ECG266	---	50	50	13	0.5	---	6.25	40,000 min	C	
ECG267	---	30	30	13	0.5	---	6.25	90,000 min	C	
ECG268	ECG269	50	50	13	2	---	10	1,000 min	C/D	
ECG272	ECG273	50	40	12	2	---	10	25,000 min	C/D	TO-202N Fig. T36  TAB CONNECTS TO COLLECTOR 

## Darlington Power Transistor Circuits



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