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DARLINGTON TRANSISTOR MODULES (Continued)

Major Ratings and Characteristics at $T_C = 25^\circ\text{C}$ (T_J Maximum = 150°C)

MAXIMUM RATINGS							ELECTRICAL CHARACTERISTICS				
Transistors							Diodes		Transistors		
Type	V_{CE0} (SUS) Volts	V_{CEV} Volts	Continuous I_C Amperes	Continuous I_B Amperes	P_T Watts	V_{RMS} Isolation Volts	I_{FM} Amperes	I_{FSM} Amperes	Test Conditions		
									I_C Amperes	V_{CE} Volts	h_{FE} Minimum

Non-Isolated Darlington Transistor Modules

KSC23010	300	350	100	3	415	—	100	1000	100	2	100
KSB23020	300	350	200	6	830	—	200	2000	200	2	100
KSB23030	300	350	300	10	1250	—	300	3000	300	2	100
KSB13060	300	350	600	15	2080	—	—	—	600	2	500

Fast Switching Darlington Transistor Modules

KSA21K03	1000	1600	30	2	310	—	30	300	30	5	75
KSF24505	450	850	50	3	160	1500	30	300	50	5	100

Chopper Darlington Transistor Modules

KQ224503	450	600	30	1.8	250	2500	30	300	30	5	100
KR224503	450	600	30	1.8	250	2500	30	300	30	5	100
KR221K03	850	1000	30	2	312	2500	30	300	30	5	100
KQ224505	450	600	50	3	312	2500	50	500	50	5	100
KR224505	450	600	50	3	312	2500	50	500	50	5	100
KQ221K05	850	1000	50	3	400	2500	50	500	50	5	100
KR221K05	850	1000	50	3	400	2500	50	500	50	5	100
KQ224575	450	600	75	4.5	355	2500	75	750	75	5	100
KR224575	450	600	75	4.5	355	2500	75	750	75	5	100
KQ221K75	850	1000	75	4	500	2500	75	750	75	5	100
KR221K75	850	1000	75	4	500	2500	75	750	75	5	100
QM100E2Y-HK	450	600	100	6	620	2500	100	1000	100	2	75
QM100E3Y-HK	450	600	100	6	620	2500	100	1000	100	2	75
QM100E2Y-2HK	850	1000	100	5	800	2500	100	1000	100	2.8	75
QM100E3Y-2HK	850	1000	100	5	800	2500	100	1000	100	2.8	75
QM150E2Y-HK	450	600	150	9	690	2500	150	1500	150	2	75
QM150E3Y-HK	450	600	150	9	690	2500	150	1500	150	2	75
QM150E2Y-2HK	850	1000	150	8	1000	2500	150	1500	150	5	100
QM150E3Y-2HK	850	1000	150	8	1000	2500	150	1500	150	5	100

									THERMAL AND MECHANICAL CHARACTERISTICS					
						Diodes		Interface Per Module	Transistors	Diodes	Weight	Outline Drawings		
Test Conditions			Resistive Load Switching Times			I _{FM} Amperes	V _{FM} Volts	R _{θCS} °C/W	R _{θJC} °C/W	R _{θJC} °C/W	Grams	Number	Page	
I _C Amperes	I _B Amperes	V _{CE (SAT)} Volts	t _{on} μs	t _s μs	t _f μs									
100	1	2	2	10	3	100	1.5	0.35	0.3	0.5	87	16	37	
200	2	2	2.5	10	3	200	1.5	0.07	0.15	0.25	200	17	37	
300	3	2	2	10	3	300	1.85	0.04	0.1	0.25	400	18	37	
600	1.2	2	3	15	3	—	—	0.05	0.06	—	400	19	38	
30	2	2	4	5	3	30	1.5	—	0.4	0.8	50	20	38	
50	1	2	2	5	2	30	1.8	—	0.8	1.2	35	21	38	
30	0.4	2	1.5	12	3	30	1.85	0.15	0.5	2	200	22	39	
30	0.4	2	1.5	12	3	30	1.85	0.15	0.5	2	200	23	39	
30	0.6	2.5	2.5	15	3	30	1.8	0.15	0.4	1.5	200	25	40	
50	0.65	2	1.5	12	3	50	1.75	0.15	0.4	1.3	200	22	39	
50	0.65	2	1.5	12	3	50	1.75	0.15	0.4	1.3	200	23	39	
50	1	2.5	2.5	15	3	50	1.8	0.15	0.31	1.2	200	24	39	
50	1	2.5	2.5	15	3	50	1.8	0.15	0.31	1.2	200	25	40	
75	1	2	2.5	12	3	75	1.85	0.15	0.35	1.3	200	22	39	
75	1	2	2.5	12	3	75	1.85	0.15	0.35	1.3	200	23	39	
75	1.5	2.5	2.5	15	3	75	1.8	0.13	0.25	1.2	250	26	40	
75	1.5	2.5	2.5	15	3	75	1.8	0.13	0.25	1.2	250	27	40	
100	1.3	2	2	12	3	100	1.75	0.1	0.2	0.65	420	29	41	
100	1.3	2	2	12	3	100	1.75	0.1	0.2	0.65	420	28	41	
100	2	2.5	3	15	3	100	1.8	0.075	0.155	0.65	470	31	42	
100	2	2.5	3	15	3	100	1.8	0.075	0.155	0.65	470	30	41	
150	2	2	2.5	12	3	150	1.85	0.1	0.18	0.6	420	29	41	
150	2	2	2.5	12	3	150	1.85	0.1	0.18	0.6	420	28	41	
150	2	2.5	3	15	3	150	1.8	0.75	0.125	0.6	470	31	42	
150	2	2.5	3	15	3	150	1.8	0.75	0.125	0.6	470	30	41	