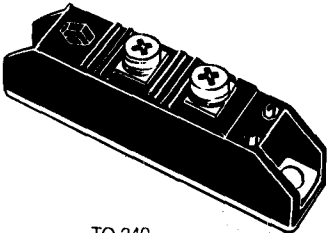
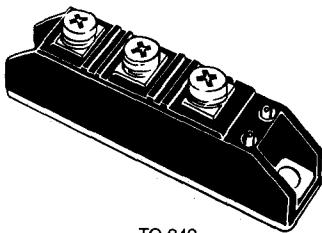


POWER MODULES

BIPOLAR IN TO 240

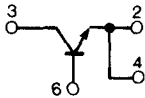


TO 240
Quarter bridge

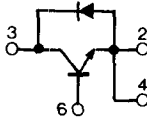


TO 240
Half bridge

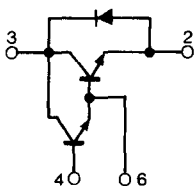
Internal schematic diagrams



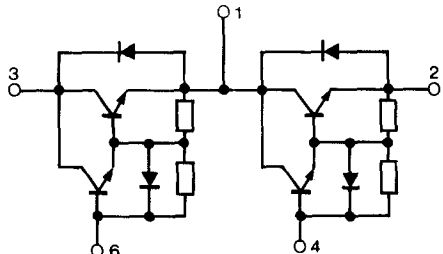
QUARTER BRIDGE TRANSISTOR
(1)



QUARTER BRIDGE TRANSISTOR
plus freewheel diode
(2)



QUARTER BRIDGE DARLINGTON
plus freewheel diode
(3)



HALF BRIDGE DARLINGTON
plus freewheel diode
(4)

I_C	V_{CBO}	V_{CEO}	P_{tot}	Package	Type	Internal schematic diagram	$V_{CE(sat)}$ @ I_C		I_B	t_r	t_s^*	t_f^*
(A)	(V)	(V)	(W)				(V)	(A)	(mA)	max (μs)	max (μs)	max (μs)
37	1000	700	300	TO 240	SGS 25 DB 070 D	4	3	25	2.5	—	5	1.5
37	1200	800	300	TO 240	SGS 25 DB 080 D	4	3	25	2.5	—	5	1.5
45	500	400	300	TO 240	SGS 30 DB 040 D	4	3	30	2	—	3	0.7
45	600	450	300	TO 240	SGS 30 DB 045 D	4	3	30	2	—	3	0.7
45	1000	600	300	TO 240	SGS 30 DA 060 D	3	2.5	30	1.5	—	6	0.8
45	1200	700	300	TO 240	SGS 30 DA 070 D	3	2.5	30	1.5	—	6	0.8
50	1000	700	—	TO 240	SGS 35 DB 070 D	4	3	35	2	—	1.9	0.35 §
50	1200	800	—	TO 240	SGS 35 DB 080 D	4	3	35	2	—	1.9	0.35 §
60	850	450	300	TO 240	SGS 40 TA 045	1	2	40	8	—	5	0.5
60	850	450	300	TO 240	SGS 40 TA 045 D	2	2	40	8	—	5	0.5
75	500	400	300	TO 240	SGS 50 DB 040 D	4	3	50	5	—	3	0.7
75	600	450	300	TO 240	SGS 50 DB 045 D	4	3	50	5	—	3	0.7
75	850	450	300	TO 240	SGS 50 DA 045 D	3	2.5	50	2	—	5	0.6
90	1000	600	—	TO 240	SGS 60 DA 060 D	3	3	60	2	—	2.2	0.4 §
90	1200	700	—	TO 240	SGS 60 DA 070 D	3	3	60	2	—	2.2	0.4 §
120	300	200	300	TO 240	SGS 80 DA 020 D	3	2	80	1	—	4	0.6
150	300	250	300	TO 240	SGS 100 DA 025 D	3	2	100	1	—	4	0.6

* $T_j = 125^\circ C$. § : Typical value.