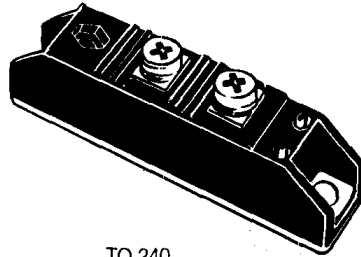
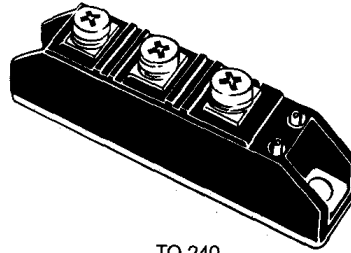


POWER MODULES

BIPOLAR IN TO 240



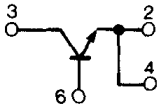
TO 240
Quarter bridge



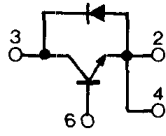
TO 240
Half bridge

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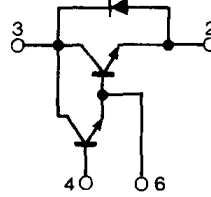
Internal schematic diagrams



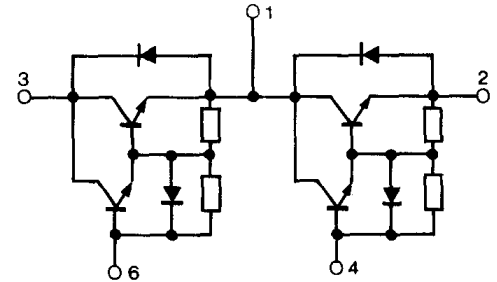
QUARTER BRIDGE TRANSISTOR
(1)



QUARTER BRIDGE TRANSISTOR
plus freewheel diode
(2)



QUARTER BRIDGE DARLINGTON
plus freewheel diode
(3)



HALF BRIDGE DARLINGTON
plus freewheel diode
(4)

I _C (A)	V _{CB0} (V)	V _{CEO} (V)	P _{tot} (W)	Package	Type	Internal schematic diagram	V _{CE (sat)} @ I _C (V)		I _B (mA)	t _r max (μs)	t _s * max (μs)	t _f * 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°C.

§ : Typical value.