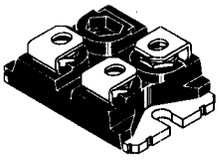
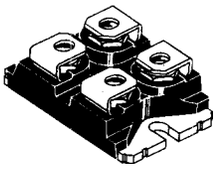
POWER MODULES

BIPOLAR IN ISOTOP

ISOTOP : Standard version

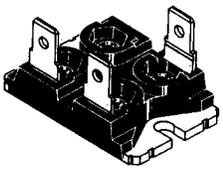


Bipolar transistors

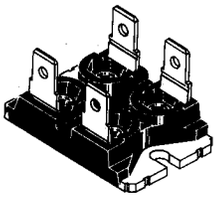


Darlingtons

ISOTOP : Faston version

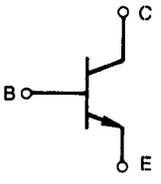


Bipolar transistors

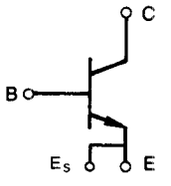


Darlingtons

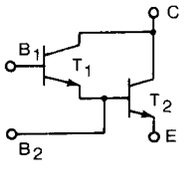
Internal schematic diagrams



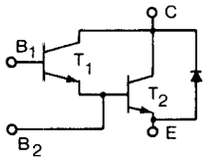
BIPOLAR TRANSISTORS (1)



BIPOLAR TRANSISTORS (2)



DARLINGTONS (3)



DARLINGTONS plus freewheel diode (4)

I_C (A)	V_{CBO} V_{CEV}* (V)	V_{CEO} (V)	P_{tot} (W)	Type See NOTE	Internal schematic diagram	$V_{CE(sat)}$ max (V) @ I_C (A)	/ I_B (A)	$t_d + t_r$ max (μs)	t_{si} t_s* max (μs)	t_{fi} t_f* max (μs)
22	1000	450	125	ESM 3045 AV	3	1.3 typ	18	0.72	—	4.5	0.5
24	600	450	125	• ESM 3045 DV	4	1.4 typ	20	1.2	—	4	0.4
30	1000	450	150	BUV 98 AV	1	1.5	16	3.2	1	5 *	0.4*
30	1200	600	150	BUV 98 BV	1	2.5	30	1	1	6	0.6
30	1200	700	150	BUV 98 CV	1	3	20	8	1	6	0.6
36	1000	450	150	• ESM 4045 AV	3	1.3 typ	30	1.2	—	5	0.6
42	600	450	150	• ESM 4045 DV	4	1.4 typ	35	2	—	4.5	0.5
60	600	450	175	• ESM 5045 DV	4	1.4 typ	50	2.8	—	5	0.5
60	1000	450	250	BUV 298 AV	1	1.2	32	6.4	—	4.5	0.4
67	400	300	150	• ESM 2030 DV	4	1.5 typ	56	1.6	—	3	0.6
72	1000	450	250	• ESM 6045 AV	3	1.3 typ	60	2.4	—	6	0.6
80	400	300	250	BUT 32 V	1	0.9	40	4	—	3	0.4
90	850*	450	300	BUF 460 V	1	0.5 typ	30	3	—	2 *	0.1*
90	1000*	450	300	BUF 460 AV	1	0.5 typ	30	3	—	2 *	0.1*
94	600	450	250	• ESM 6045 DV	4	1.35 typ	70	4	—	5.5	0.5
100	200	125	250	BUT 30 V	1	0.9	100	10	—	2	0.2
100	400	300	225	• ESM 3030 DV	4	1.5 typ	85	2.4	—	3.5	0.6
120	150	125	175	• ESM 2012 DV	4	1.5 typ	100	1	—	2	0.3

For switching times, T_j = 100°C.

• Darlingtons.

NOTE : FASTON VERSION - Without final «V» in the sales type.