

Power Transistor Module

S-8 Series (Small-sized Completely-Molded Type SIP 8 Pins)

F1

Type No.	Circuit	Chip	Max. Rating			hFE MIN'	Electrical Characteristics (Ta=25°C)				
			V _{CEO} (V)	I _c (A)	P _T (Ta=25°C) (W)		V _{CE} (V)	I _c (A)	V _{CE(sat)} (V) MAX.	I _c (A)	I _b (mA)
MP3001	NPN x 3	Darlington	60±10	4	3	2000	2	1	1.5	3	10
MP3002	NPN x 3	Darlington	60±10	2	3	2000	2	1	1.5	1	1
MP3003	NPN x 3	Darlington	80	4	3	2000	2	1	1.5	3	6
MP3004	NPN x 3	Darlington	80	2	3	2000	2	1	1.5	1	1
MP3005	NPN x 3	Darlington	100	5	3	1000	3	3	2.0	3	12
MP3006	PNP x 3	Darlington	-80	-2	3	2000	-2	-1	-1.5	-1	-1
MP3007	PNP x 3	Darlington	-80	-4	3	2000	-2	-1	-1.5	-3	-6
MP3008	NPN x 3	Darlington	100	3	3	2000	2	1.5	1.5	1.5	3
MP3009	PNP x 3	Darlington	-100	-5	3	1000	-3	-3	-2.0	-3	-12
MP3010	NPN x 3	Darlington	100	5	3	2000	5	3	2.0	3	6
MP3011	PNP x 3	Darlington	-100	-5	3	2000	-5	-3	-2.0	-3	-6
MP3102	NPN x 3	Darlington	60±10	2	3	2000	2	1	1.5	1	1
MP3103	NPN x 3	Darlington	80	3	3	2000	2	1	1.8	2	4
MP3107	PNP x 3	Darlington	-80	-3	3	2000	-2	-1	-1.8	-2	-4

S-10 Series (Small-sized Completely-Molded Type SIP 10 Pins)

F1

Type No.	Circuit	Chip	Max. Rating			hFE MIN'	Electrical Characteristics (Ta=25°C)				
			V _{CEO} (V)	I _c (A)	P _T (Ta=25°C) (W)		V _{CE} (V)	I _c (A)	V _{CE(sat)} (V) MAX.	I _c (A)	I _b (mA)
MP4001	NPN x 4	Darlington	60±10	4	4	2000	2	1	1.5	3	10
MP4002	NPN x 4	Darlington	60±10	2	4	2000	2	1	1.5	1	1
MP4003	NPN x 4	Darlington	100	5	4	1000	3	3	2.0	3	12
MP4004	NPN x 4	Darlington	100	3	4	2000	2	1.5	1.5	1.5	3
MP4005	NPN x 2 + PNP x 2	Darlington	±80	±4	4	2000	±2	±1	±1.5	±3	±6
MP4006	NPN x 2 + PNP x 2	Darlington	±80	±2	4	2000	±2	±1	±1.5	±1	±1
MP4008	NPN x 4	High β	80	2	4	500	1	0.4	0.5	0.3	1
MP4009	PNP x 4	Darlington	-100	-5	4	1000	-3	-3	-2.0	-3	-12
MP4010	NPN x 2 + NPN x 2	Darlington	100	5	4	1000	3	3	2.0	3	12
MP4011	NPN x 4	Darlington	60±10	5	4	1000	4	3	1.5	3	10
MP4012	NPN x 2 + NPN x 2	Darlington	60±10	4	4	2000	2	1	1.5	3	10
MP4013	NPN x 4	Darlington	80±10	2	4	2000	2	1	1.5	1	1
MP4014	NPN x 4	Darlington	100	3	4	2000	2	1	1.5	1	1
MP4015	NPN x 4	Darlington	60±10	5	4	1000	4	3	2.0	3	10
MP4017	NPN x 4	Darlington	100±15	2	4	2000	2	1	1.5	1	1
MP4018	PNP x 4	Darlington	-80	-3	4	2000	-2	-1	-1.8	-2	-4
MP4020	NPN x 4	Darlington	60±10	2	4	2000	2	1	1.5	1	1
*MP4021	NPN x 4	Darlington	100±15	2	4	2000	2	1	1.5	1	1
*MP4022	NPN x 2 + NPN x 2	Darlington	100±15	2	4	2000	2	1	1.5	1	1
*MP4023	NPN x 2 + NPN x 2	Darlington	60±10	2	4	2000	2	1	1.5	1	1
*MP4024	NPN x 4	Darlington	100±15	3	4	2000	2	1	1.5	1	4.2V
MP4101	NPN x 4	Darlington	60±10	4	4	2000	2	1	1.5	3	10
MP4102	NPN x 4	Darlington	60±10	2	4	2000	2	1	1.5	1	1
MP4104	NPN x 4	Darlington	100	4	4	2000	2	1.5	1.5	1.5	3

S-12 Series (Small-sized Completely-Molded Type SIP 12 Pins)

F1

Type No.	Circuit	Chip	Max. Rating			hFE MIN'	Electrical Characteristics (Ta=25°C)				
			V _{CEO} (V)	I _c (A)	P _T (Ta=25°C) (W)		V _{CE} (V)	I _c (A)	V _{CE(sat)} (V) MAX.	I _c (A)	I _b (mA)
MP4301	(N x 2 + N x 2) with FB-Di	Darlington	100	3	4.4	2000	2	1.5	1.5	1.5	3
MP4302	PNP x 4	Darlington	-100	-5	4.4	2000	-5	-3	-1.5	-3	-6
MP4303	(N x 2 + N x 2) with FB-Di	Darlington	100	2	4.4	2000	2	1	1.5	1	1
MP4304	(N x 2 + N x 2) with FB-Di	High β	80	3	4.4	600	2	1	0.5	1.5	15
MP4305	(N x 2 + P x 2) with FB-Di	Darlington	-100	-5	4.4	2000	-5	-3	-1.5	-3	-6
*MP4307	(N x 2 + P x 2) with FB-Di	Darlington	-80	-3	4.4	2000	-2	-1	-1.8	-2	-4
MP5301	NPN x 4 + PNP x 1	Darlington	60±10/-100	2/-5	4.4	2000	2/-5	1/-3	1.5/-1.5	1/-3	1/-6
MP5302	NPN x 4 + PNP x 1	Darlington	100±15/-100	2/-5	4.4	2000	2/-5	1/-3	1.5/-1.5	1/-3	1/-6
MP6301	NPN x 3 + PNP x 3	Darlington	±80	±3	4.4	2000	±2	±1	±1.8	±2	±4
MP6302	NPN x 3 + PNP x 3	Darlington	±80	±3	4.4	2000	±2	±1	±1.8	±2	±4

*: Under development