

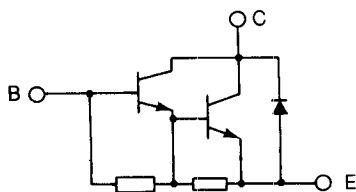
POWER TRANSISTORS

MOSFET TRANSISTORS FOR AUTOMOTIVE APPLICATIONS (Continued)

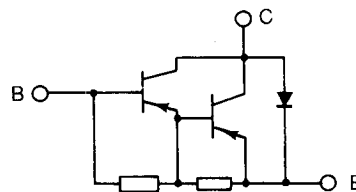
V _{(BR) DSS} (V)	R _{DS (on)} max (Ω)	@ I _D (A)	Package	Type	I _D max (A)	P _{tot} (W)	g _{fs} min (mho)	C _{iss} max (pF)
80	0.36	5.6	TO 220	IRF523	8	60	2.7	600
80	0.36	5.6	ISOWATT 220	IRF523FI	6	30	2.7	600
80	0.27	5.6	TO 220	IRF521	9.2	60	2.7	600
80	0.27	5.6	ISOWATT 220	IRF521FI	7	30	2.7	600
80	0.23	8.3	TO 220	IRF533	12	79	5.1	800
80	0.23	8.3	ISOWATT 220	IRF533FI	8	35	5.1	800
80	0.16	8.3	TO 220	IRF531	14	79	5.1	800
80	0.16	8.3	ISOWATT 220	IRF531FI	9	35	5.1	800
80	0.10	17	TO 220	IRF543	25	125	8.7	1600
80	0.10	17	ISOWATT 220	IRF543FI	14	40	8.7	1600
80	0.077	17	TO 220	IRF541	28	125	8.7	1600
80	0.077	17	ISOWATT 220	IRF541FI	15	40	8.7	1600
100	1.40	1.2	SOT 82	SGSP201*	2	18	0.5	125
100	0.36	5.6	TO 220	IRF522	8	60	2.7	600
100	0.36	5.6	ISOWATT 220	IRF522FI	6	30	2.7	600
100	0.27	5.6	TO 220	IRF520	9	60	2.7	600
100	0.27	5.6	ISOWATT 220	IRF520FI	7	30	2.7	600
100	0.25	5	TO 220	BUZ72A	9	40	2.7	600
100	0.23	8.3	TO 220	IRF532	12	79	5.1	800
100	0.23	8.3	ISOWATT 220	IRF532FI	8	35	5.1	800
100	0.16	8.3	TO 220	IRF530	14	79	5.1	800
100	0.16	8.3	ISOWATT 220	IRF530FI	9	35	5.1	800
100	0.15	9	TO 220	SGSP361	18	100	4.5	1200
100	0.15	10	TO 218	SGSP461	20	125	4.5	1200
100	0.10	17	TO 220	IRF542	25	125	8.7	1600
100	0.10	17	ISOWATT 220	IRF542FI	14	40	8.7	1600
100	0.08	22	TO 218	IRFP152	34	150	13	3000
100	0.08	22	ISOWATT 218	IRFP152FI	21	65	13	3000
100	0.077	17	TO 220	IRF540	28	125	8.7	1600
100	0.077	17	ISOWATT 220	IRF540FI	15	40	8.7	1600
100	0.055	22	TO 218	IRFP150	40	150	13	3000
100	0.055	22	ISOWATT 218	IRFP150FI	26	65	13	3000

* Also available in SOT 194 package for SMD.

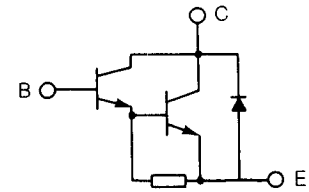
Internal schematic diagrams



NPN



PNP



For SGSD 93E / 93F / 93G only

POWER MOS

V _{(BR) DSS} (V)	R _{DS(on)} max (Ω)	@ I _D (A)	Package	Type	I _D max (A)	P _{tot} (W)	g _{fs} min (mho)	C _{iss} max (pF)
100	0.055	22	TO 218	IRFP150	40	150	13	3000
100	0.055	22	ISOWATT 218	IRFP150FI	26	65	13	3000
100	0.014	50	TO 240	SGS100MA010D1	120	400	20	11200
100	0.014	60	ISOTOP	TSD4M150V	135	500	20	11200
100	0.009	75	TO 240	SGS150MA010D1	150	400	20	14000
150	1.2	2.5	TO 220	IRF623	4	40	1.3	600
150	1.2	2.5	ISOWATT 220	IRF623FI	3.5	30	1.3	600
150	0.8	2.5	TO 220	IRF621	5	40	1.3	600
150	0.8	2.5	ISOWATT 220	IRF621FI	4	30	1.3	600
200	1.2	2.5	TO 220	IRF622	4	40	1.3	600
200	1.2	2.5	ISOWATT 220	IRF622FI	3.5	30	1.3	600
200	0.8	2.5	TO 220	IRF620	5	40	1.3	600
200	0.8	2.5	ISOWATT 220	IRF620FI	4	30	1.3	600
200	0.75	3	TO 220	SGSP317	6	75	1.5	500
200	0.4	4.5	TO 220	BUZ32	9.5	75	2.2	2000
200	0.33	6	TO 220	SGSP367	12	100	3	1200
200	0.17	10	TO 218	SGSP477	20	150	8	2200
200	0.17	10	TO 3	SGSP577	20	150	8	2200
200	0.021	60	ISOTOP	TSD4M250V	110	500	28	12000
250	1.2	2.5	TO 220	SGSP316	5	75	1.5	500
250	0.45	5	TO 220	SGSP363	10	100	3	1200
350	2.5	1.8	TO 220	IRF723	2.8	50	1	800
350	2.5	1.8	ISOWATT 220	IRF723FI	2	30	1	600
350	1.8	1.8	TO 220	IRF721	3.3	50	1	600
350	1.8	1.8	ISOWATT 220	IRF721FI	2.5	30	1	600
350	1.5	3	TO 220	IRF733	4.5	74	2.9	800
350	1.5	3	ISOWATT 220	IRF733FI	3	35	2.9	800
350	1	3	TO 220	IRF731	5.5	74	2.9	800
350	1	3	ISOWATT 220	IRF731FI	3.5	35	2.9	800
350	0.8	5.2	TO 220	IRF743	8.3	125	4	1600
350	0.8	5.2	ISOWATT 220	IRF743FI	4.5	40	4	1600
350	0.55	5.2	TO 220	IRF741	10	125	4	1600
350	0.55	5.2	ISOWATT 220	IRF741FI	5.5	40	4	1600
350	0.075	30	ISOTOP	TSD4M351V	50	500	28	12000
400	20	0.3	TO 220	SGSP341	0.8	18	0.1	105
400	2.5	1.5	TO 220	BUZ76A	2	40	0.8	600
400	2.5	1.8	TO 220	IRF722	2.8	50	1	600
400	2.5	1.8	ISOWATT 220	IRF722FI	2	30	1	600
400	1.8	1.5	TO 220	BUZ76	3	40	0.8	500
400	1.8	1.8	TO 220	IRF720	3.3	50	1	600
400	1.8	1.8	ISOWATT 220	IRF720FI	2.5	30	1	600
400	1.5	2.5	TO 220	BUZ60B	4.5	75	1.7	2000
400	1.5	3	TO 220	IRF732	4.5	74	2.9	800
400	1.5	3	ISOWATT 220	IRF732FI	3	35	2.9	800
400	1	2.5	TO 220	BUZ60	5.5	75	1.7	2000
400	1	3	TO 220	IRF730	5.5	74	2.9	800
400	1	3	ISOWATT 220	IRF730FI	3.5	35	2.9	800
400	0.8	5.2	TO 220	IRF742	8.3	125	4	1600
400	0.8	5.2	ISOWATT 220	IRF742FI	4.5	40	4	1600
400	0.55	5.2	TO 220	IRF740	10	125	4	1600
400	0.55	5.2	ISOWATT 220	IRF740FI	5.5	40	4	1600
400	0.55	5	TO 218	SGSP475	10	150	6	2100
400	0.55	5	TO 3	SGSP575	10	150	6	2100
400	0.3	8	TO 3	IRF350	15	150	8	3000
400	0.3	8	ISOWATT 218	IRFP350FI	10	70	8	3000
400	0.075	30	ISOTOP	TSD4M350V	50	500	28	12000
450	4	1.4	TO 220	IRF823	2.2	50	1	400
450	4	1.4	ISOWATT 220	IRF823FI	1.5	30	1	400
450	3	1.4	TO 220	IRF821	2.5	50	1	400
450	3	1.4	ISOWATT 220	IRF821FI	2	30	1	400
450	3	1.2	SOT 82	SGSP230*	2.5	50	0.8	450
450	3	1.5	TO 220	SGSP330	3	75	0.8	450
450	2	2.5	TO 220	IRF833	4	74	2.7	800
450	2	2.5	ISOWATT 220	IRF833FI	2.5	35	2.7	800

* Also available in SOT 194 package for SMD.