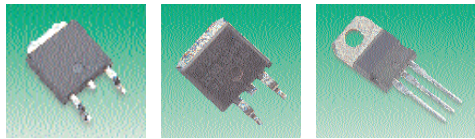


Power MOSFETs — continued

CoolMOS™ Power MOSFETs

High Voltage

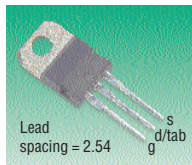


V _{DS} V	N/P Channel	R _{DS} (on) max. Ω	I _D cont @ 25°C A	I _{DM} pulsed A	V _{GS} (th) max. (*min) V	P _D @ 25°C W	Mfrs. List No.
TO-252							
600	N	1.4	3.2	5.7	5.5	38	SPD03N60S5
600	N	0.6	7.3	14.6	5.5	83	SPD07N60S5
TO-220							
600	N	0.6	7.3	14.6	5.5	83	SPP07N60S5
600	N	0.19	20.0	40.0	5.5	208	SPP20N60S5
TO-263 (D2-Pak)							
600	N	3.0	1.8	3.2	5.5	25	SPB02N60S5
600	N	1.4	3.2	5.7	5.5	38	SPB03N60S5
600	N	0.95	4.5	7.7	5.5	50	SPB04N60S5
600	N	0.6	7.3	14.6	5.5	83	SPB07N60S5
600	N	0.38	11.0	22.0	5.5	125	SPB11N60S5
600	N	0.19	20.0	40.0	5.5	208	SPB20N60S5
TO-247							
600	N	0.38	11.0	22.0	5.5	125	SPW11N60S5
600	N	0.19	20.0	40.0	5.5	208	SPW20N60S5

SD120

Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
SPD03N60S5	SMD 301-3121					
SPD07N60S5	SMD 301-3133					
SPP07N60S5	301-3145					
SPP20N60S5	301-3157					
SPB02N60S5	NEW 353-9647					
SPB03N60S5	NEW 353-9659					
SPB04N60S5	NEW 353-9660					
SPB07N60S5	NEW 353-9672					
SPB11N60S5	NEW 353-9684					
SPB20N60S5	SMD 301-3169					
SPW11N60S5	NEW 353-9696					
SPW20N60S5	NEW 353-9702					

TO-220, N Channel 600V to 1000V



V _{DS} V	R _{DS} (on) Ω	I _D cont @ 25°C A	I _{DM} Pulsed A	P _D @ 25°C W	Mfr.	Mfrs. List No.
600	4.4	2.2	8.0	50	IR	IRFBC20
600	3.6	3.3	13.2	80	ST	STP3NB60
600	3.5	2.9	11.5	75	INF	BUZ77B
600	2.2	3.6	12.0	74	IR	IRFBC30
600	2.2	4.2	16.8	100	ST	STP4NC60
600	2.0	3.0	20.0	100	ST	STP5NB60
600	2.0	4.0	18.0	75	INF	BUZ90A
600	1.6	4.5	18.0	75	INF	BUZ90
600	1.2	6.0	24.0	125	ST	STP6NC60
600	1.2	7.2	28.8	125	ST	STP7NB60
600	0.9	8.0	32.0	150	INF	BUZ91A
600	0.75	9.0	36.0	125	ST	STP9NC60
800	3.3	4.0	16.0	100	ST	STP4NB80
800	3.0	3.0	12.0	75	ST	BUZ80A
800	3.0	4.1	16.0	125	IR	IRFBE30
800	2.2	5.0	20.0	110	ST	STP5NB80
900	8.0	1.7	3.1	54	IR	IRFBF20
900	4.2	3.5	14.0	100	ST	STP3NB90
900	3.7	3.6	14.0	125	IR	IRFBF30
900	2.0	5.8	23.0	135	ST	STP6NB90
1000	11.5	1.3	5.2	50	IR	IRFBG20
1000	8.0	2.0	8.0	75	INF	BUZ50B
1000	6.0	3.0	12.0	100	ST	STP3NB100
1000	5.0	3.1	12.0	125	IR	IRFBG30
1000	4.4	3.8	2.4	125	ST	STP4NB100
1000	3.8	4.0	12.0	100	TOSH	2SK1119
1000	3.5	4.2	4.2	125	ST	STP4NA100
1000	2.7	5.0	—	—	ST	STP5NB100

SD366

Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
BUZ50B	.523-276					
BUZ77B	.541-400					
BUZ80A	.354-181					
BUZ90	.354-211					
BUZ90A	.523-318					
BUZ91A	.354-223					

continued

Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
IRFBC20	995-897					
IRFBC30	354-776					
IRFBE30	168-026					
IRFBF20	168-038					
IRFBF30	168-040					
IRFBG20	354-788					
IRFBG30	168-051					
STP3NB60	494-320					
STP3NB90	332-8510					
STP3NB100	323-9329					
STP4NA100	494-367					
STP4NB80	332-8030					
STP4NB100	323-9330					
STP4NC60	332-8650					
STP5NB60	498-014					
STP5NB80	332-8041					
STP5NB100	323-9342					
STP6NB90	332-8053					
STP6NC60	332-8648					
STP7NB60	498-105					
STP9NC60	332-8636					
2SK1119	.251-744					

TO-220, N-Channel Fast Switching

- Fast switching
- Low input capacitance
- Advanced cell structure
- 100% avalanche tested

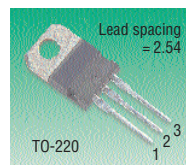
V _{DS} V	R _{DS} (on) Ω	I _D cont. A	I _{DM} Pulsed A	V _{GS} (th) max. V	t _r typ. ns	t _f typ. ns	P _D @ 25°C W	Mfr.	Mfrs. List No.
400	0.55	10.0	32.0	4.0	31	30	125	IR	IRF740LC
400	0.55	10.0	40.0	3.75	115	30	125	ST	STP10NA40
500	0.85	8.0	28.0	4.0	25	19	125	IR	IRF840LC
600	4.0	2.9	11.6	3.75	25	24	80	ST	STP3NA60
600	1.6	5.3	21.0	3.75	75	18	110	ST	STP5NA60
600	1.2	6.2	25.0	4.0	20	17	125	IR	IRFBC40LC
800	4.5	3.2	13.0	3.75	20	15	100	ST	STP3NA80
800	3.5	3.8	—	3.75	—	—	100	ST	STP4NA80
800	2.4	4.8	19.0	3.75	25	25	125	ST	STP5NA80

SD194

Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
IRF740LC	.538-516					
IRF840LC	.538-528					
IRFBC40LC	.538-530					
STP3NA60	523-150 †					
STP3NA80	434-954 †					
STP4NA60	738-300					
STP4NA80	706-309					
STP5NA60	434-978					
STP5NA80	.434-980					
STP5NA90	567-851 †					
STP10NA40	435-004					

† Available until stocks are exhausted

TO-220, P Channel



Package/ Pin Out	1	2	3
(a) TO-220	g	d/tab	s
(b) TO-220	g	s/tab	d

V _{DS} V	R _{DS} (on) Ω	I _D cont @ 25°C A	I _{DM} Pulsed A	P _D @ 25°C W	Package/ Pin Out	Mfr.	Mfrs. List No.
20	0.07	24.0	—	50	a	FCH	NDP6020P
30	0.007	75.0	240	187	a	SLX	SUP75P03-07
50	0.008	75.0	240	250	a	SLX	SUP75P05-08
55	0.172	12.0	48	45	a	IR	IRF9224N
55	0.1	17.0	68	56	a	IR	IRF9234N
55	0.06	31.0	110	110	a	IR	IRF5305
55	0.02	64.0	260	150	a	IR	IRF4905
60	0.3	8.8	35.2	42	a	INF	SPP08P06P
60	0.28	9.7	39	40	a	IR	IRF9224
60	0.25	10.0	40	40	a	HIT	2SJ172
60	0.2	10.0	—	50	a	HIT	2SJ122
60	0.14	18.0	—	88	a	IR	IRF9234
60	0.13	18.6	74.4	80	a	INF	SPP18P06P
60	0.02	60.0	240	150	a	SLX	SUP65P06-20
100	1.2	3.0	12	20	a	IR	IRF9510
100	0.48	6.8	27	48	a	IR	IRF9520N
100	0.2	13.0	52	75	a	IR	IRF9530N
100	0.117	19.0	76	94	a	IR	IRF9540N
100	0.06	40.0	140	200	a	IR	IRF5210
150	0.29	13.0	44	110	a	IR	IRF6215
200	10 (typ)	0.5	—	30	b	HIT	2SJ79
200	3.0	1.75	7	20	a	IR	IRF9610
200	1.5	3.5	14	40	a	IR	IRF9620
200	0.8	6.5	26	75	a	IR	IRF9630
200	0.5	11.0	44	125	a	IR	IRF9640
400	7.0	2.0	—	40	a	HIT	2SJ117

SD363