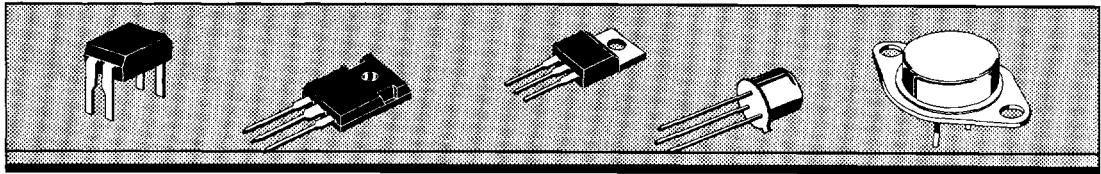


Industry Standard Commercial MOSFETs



Part Number	$V_{(BR)DSS}$ (V)	I_D (A)	$r_{DS(ON)}$ (Ω)	Package	Part Number	$V_{(BR)DSS}$ (V)	I_D (A)	$r_{DS(ON)}$ (Ω)	Package
IRF130 ¹	100	14	0.18	TO-204	IRF432 ¹	500	4.0	2.0	TO-204
IRF131 ¹	60	14	0.18	TO-204	IRF433 ¹	450	4.0	2.0	TO-204
IRF132 ¹	100	12	0.25	TO-204	IRF440 ¹	500	8.0	0.85	TO-204
IRF133 ¹	60	12	0.25	TO-204	IRF441 ¹	450	8.0	0.85	TO-204
IRF140 ¹	100	27	0.085	TO-204	IRF442 ¹	500	7.0	1.1	TO-204
IRF141 ¹	60	27	0.085	TO-204	IRF443 ¹	450	7.0	1.1	TO-204
IRF142 ¹	100	24	0.11	TO-204	IRF450 ¹	500	13	0.40	TO-204
IRF143 ¹	60	24	0.11	TO-204	IRF451 ¹	450	13	0.40	TO-204
IRF150 ¹	100	40	0.055	TO-204	IRF452 ¹	500	12	0.50	TO-204
IRF151 ¹	60	40	0.055	TO-204	IRF453 ¹	450	12	0.50	TO-204
IRF152 ¹	100	33	0.080	TO-204	IRF510	100	4.0	0.60	TO-220
IRF153 ¹	60	33	0.080	TO-204	IRF511 ¹	60	4.0	0.60	TO-220
IRF230 ¹	200	9.0	0.40	TO-204	IRF512 ¹	100	3.5	0.80	TO-220
IRF231 ¹	150	9.0	0.40	TO-204	IRF513 ¹	60	3.5	0.80	TO-220
IRF232 ¹	200	8.0	0.60	TO-204	IRF520	100	8.0	0.30	TO-220
IRF233 ¹	150	8.0	0.60	TO-204	IRF521 ¹	60	8.0	0.30	TO-220
IRF240 ¹	200	18	0.18	TO-204	IRF522 ¹	100	7.0	0.40	TO-220
IRF241 ¹	150	18	0.18	TO-204	IRF523 ¹	60	7.0	0.40	TO-220
IRF242 ¹	200	16	0.22	TO-204	IRF530	100	14	0.18	TO-220
IRF243 ¹	150	16	0.22	TO-204	IRF531 ¹	60	14	0.18	TO-220
IRF250 ¹	200	30	0.085	TO-204	IRF532 ¹	100	12	0.25	TO-220
IRF251 ¹	150	30	0.085	TO-204	IRF533 ¹	60	12	0.25	TO-220
IRF252 ¹	200	25	0.12	TO-204	IRF540	100	27	0.085	TO-220
IRF253 ¹	150	25	0.12	TO-204	IRF541 ¹	60	27	0.085	TO-220
IRF330 ¹	400	5.5	1.0	TO-204	IRF542 ¹	100	24	0.11	TO-220
IRF331 ¹	350	5.5	1.0	TO-204	IRF543 ¹	60	24	0.11	TO-220
IRF332 ¹	400	4.5	1.5	TO-204	IRF610	200	2.5	1.5	TO-220
IRF333 ¹	350	4.5	1.5	TO-204	IRF611 ¹	150	2.5	1.5	TO-220
IRF340 ¹	400	10	0.55	TO-204	IRF612 ¹	200	2.0	2.4	TO-220
IRF341 ¹	350	10	0.55	TO-204	IRF613 ¹	150	2.0	2.4	TO-220
IRF342 ¹	400	8.0	0.80	TO-204	IRF620	200	5.0	0.80	TO-220
IRF343 ¹	350	8.0	0.80	TO-204	IRF621 ¹	150	5.0	0.80	TO-220
IRF350 ¹	400	15	0.30	TO-204	IRF622 ¹	200	4.0	1.2	TO-220
IRF351 ¹	350	15	0.30	TO-204	IRF623 ¹	150	4.0	1.2	TO-220
IRF352 ¹	400	13	0.40	TO-204	IRF630	200	9.0	0.40	TO-220
IRF353 ¹	350	13	0.40	TO-204	IRF631 ¹	150	9.0	0.40	TO-220
IRF430 ¹	500	4.5	1.5	TO-204	IRF632 ¹	200	8.0	0.60	TO-220
IRF431 ¹	450	4.5	1.5	TO-204	IRF633 ¹	150	8.0	0.60	TO-220

¹Not recommended for new designs

Industry Standard Commercial MOSFETs (Cont'd)

Part Number	$V_{(BR)DSS}$ (V)	I_D (A)	$r_{DS(ON)}$ (Ω)	Package	Part Number	$V_{(BR)DSS}$ (V)	I_D (A)	$r_{DS(ON)}$ (Ω)	Package
IRF640	200	18	0.18	TO-220	IRF9532 ¹	-100	-10	0.40	TO-220
IRF642 ¹	200	16	0.22	TO-220	IRF9533 ¹	-60	-10	0.40	TO-220
IRF643 ¹	150	16	0.22	TO-220	IRF9620	-200	-3.5	1.5	TO-220
IRF710 ¹	400	1.5	3.6	TO-220	IRF9621 ¹	-150	-3.5	1.5	TO-220
IRF711 ¹	350	1.5	3.6	TO-220	IRF9622 ¹	-200	-3.0	2.4	TO-220
IRF712 ¹	400	1.3	5.0	TO-220	IRF9623 ¹	-150	-3.0	2.4	TO-220
IRF713 ¹	350	1.3	5.0	TO-220	IRF9630	-200	-6.5	0.80	TO-220
IRF720	400	3.0	1.8	TO-220	IRF9631 ¹	-150	-6.5	0.80	TO-220
IRF721 ¹	350	3.0	1.8	TO-220	IRF9632 ¹	-200	-5.5	1.2	TO-220
IRF722 ¹	400	2.5	2.5	TO-220	IRF9633 ¹	-150	-5.5	1.2	TO-220
IRF723 ¹	350	2.5	2.5	TO-220	IRFD110	100	1.0	0.60	TO-250
IRF730	400	5.5	1.0	TO-220	IRFD113 ¹	60	0.80	0.80	TO-250
IRF731 ¹	350	5.5	1.0	TO-220	IRFD120	100	1.3	0.30	TO-250
IRF732 ¹	400	4.5	1.5	TO-220	IRFD123	60	1.1	0.40	TO-250
IRF733 ¹	350	4.5	1.5	TO-220	IRFD210	200	0.60	1.5	TO-250
IRF740	400	10	0.55	TO-220	IRFD213 ¹	150	0.45	2.4	TO-250
IRF741 ¹	350	10	0.55	TO-220	IRFD220	200	0.80	0.80	TO-250
IRF742 ¹	400	8.0	0.80	TO-220	IRFD223 ¹	150	0.70	1.2	TO-250
IRF743 ¹	350	8.0	0.80	TO-220	IRFD020	50	2.4	0.10	TO-250
IRF820	500	2.5	3.0	TO-220	IRFD022 ¹	50	2.2	0.12	TO-250
IRF821 ¹	450	2.5	3.0	TO-220	IRFD9020	-50	-1.6	0.28	TO-250
IRF822 ¹	500	2.0	4.0	TO-220	IRFD9022 ¹	-50	-1.4	0.33	TO-250
IRF823 ¹	450	2.0	4.0	TO-220	IRFD9120	-100	-1.0	0.60	TO-250
IRF830	500	4.5	1.5	TO-220	IRFD9123 ¹	-60	-0.80	0.80	TO-250
IRF831 ¹	450	4.5	1.5	TO-220	IRFD9220	-200	-0.6	1.5	TO-250
IRF832 ¹	500	4.0	2.0	TO-220	IRFD9223 ¹	-150	-0.45	2.4	TO-250
IRF833 ¹	450	4.0	2.0	TO-220	IRFF110 ¹	100	3.5	0.60	TO-205
IRF840	500	8.0	0.85	TO-220	IRFF111 ¹	60	3.5	0.60	TO-205
IRF841 ¹	450	8.0	0.85	TO-220	IRFF112 ¹	100	3.0	0.80	TO-205
IRF842 ¹	500	7.0	1.1	TO-220	IRFF113 ¹	60	3.0	0.80	TO-205
IRF843 ¹	450	7.0	1.1	TO-220	IRFF120 ¹	100	6.0	0.30	TO-205
IRF9130 ¹	-100	-12	0.30	TO-204	IRFF121 ¹	60	6.0	0.30	TO-205
IRF9131 ¹	-60	-12	0.30	TO-204	IRFF122 ¹	100	5.0	0.40	TO-205
IRF9132 ¹	-100	-10	0.40	TO-204	IRFF123 ¹	60	5.0	0.40	TO-205
IRF9133 ¹	-60	-10	0.40	TO-204	IRFF130 ¹	100	8.0	0.18	TO-205
IRF9230	-200	-6.5	0.80	TO-204	IRFF131 ¹	60	8.0	0.18	TO-205
IRF9231 ¹	-150	-6.5	0.80	TO-204	IRFF132 ¹	100	7.0	0.25	TO-205
IRF9232 ¹	-200	-5.5	1.2	TO-204	IRFF133 ¹	60	7.0	0.25	TO-205
IRF9233 ¹	-150	-5.5	1.2	TO-204					
IRF9520 ¹	-100	-6.0	0.60	TO-220					
IRF9521 ¹	-60	-6.0	0.60	TO-220					
IRF9522 ¹	-100	-5.0	0.80	TO-220					
IRF9523 ¹	-60	-5.0	0.80	TO-220					
IRF9530	-100	-12	0.30	TO-220					
IRF9531 ¹	-60	-12	0.30	TO-220					

¹Not recommended for new designs

NOTE: Negative voltage indicates P-Channel MOSFET

Industry Standard Commercial MOSFETs (Cont'd)

Part Number	$V_{(BR)DSS}$ (V)	I_D (A)	$r_{DS(ON)}$ (Ω)	Package
IRFF210 ¹	200	2.2	1.5	TO-205
IRFF211 ¹	150	2.2	1.5	TO-205
IRFF212 ¹	200	1.8	2.4	TO-205
IRFF213 ¹	150	1.8	2.4	TO-205
IRFF220 ¹	200	3.5	0.80	TO-205
IRFF221 ¹	150	3.5	0.80	TO-205
IRFF222 ¹	200	3.0	1.2	TO-205
IRFF223 ¹	150	3.0	1.2	TO-205
IRFF230 ¹	200	5.5	0.40	TO-205
IRFF231 ¹	150	5.5	0.40	TO-205
IRFF232 ¹	200	4.5	0.60	TO-205
IRFF233 ¹	150	4.5	0.60	TO-205
IRFF310 ¹	400	1.35	3.6	TO-205
IRFF311 ¹	350	1.35	3.6	TO-205
IRFF312 ¹	400	1.15	5.0	TO-205
IRFF313 ¹	350	1.15	5.0	TO-205
IRFF320 ¹	400	2.5	1.8	TO-205
IRFF321 ¹	350	2.5	1.8	TO-205
IRFF322 ¹	400	2.0	2.5	TO-205
IRFF323 ¹	350	2.0	2.5	TO-205
IRFF330 ¹	400	3.5	1.0	TO-205
IRFF331 ¹	350	3.5	1.0	TO-205
IRFF332 ¹	400	3.0	1.5	TO-205
IRFF333 ¹	350	3.0	1.5	TO-205
IRFF420 ¹	500	1.6	3.0	TO-205
IRFF421 ¹	450	1.6	3.0	TO-205
IRFF422 ¹	500	1.4	4.0	TO-205

Part Number	$V_{(BR)DSS}$ (V)	I_D (A)	$r_{DS(ON)}$ (Ω)	Package
IRFF423 ¹	400	1.4	4.0	TO-205
IRFF430 ¹	500	2.75	1.5	TO-205
IRFF431 ¹	450	2.75	1.5	TO-205
IRFF433 ¹	450	2.25	2.0	TO-205
IRFF9120 ¹	-100	-4.0	0.60	TO-205
IRFF9121 ¹	-60	-4.0	0.60	TO-205
IRFF9122 ¹	-100	-3.5	0.80	TO-205
IRFF9123 ¹	-60	-3.5	0.80	TO-205
IRFF9130 ¹	-100	-6.5	0.30	TO-205
IRFF9131 ¹	-60	-6.5	0.30	TO-205
IRFF9132 ¹	-100	-5.5	0.40	TO-205
IRFF9133 ¹	-60	-5.5	0.40	TO-205
IRFF9220 ¹	-200	-2.5	1.5	TO-205
IRFF9221 ¹	-150	-2.5	1.5	TO-205
IRFF9222 ¹	-200	-2.0	2.4	TO-205
IRFF9223 ¹	-150	-2.0	2.4	TO-205
IRFF9230 ¹	-200	-4.0	0.80	TO-205
IRFF9231 ¹	-150	-4.0	0.80	TO-205
IRFF9232 ¹	-200	-3.5	1.2	TO-205
IRFF9233 ¹	-150	-3.5	1.2	TO-205
IRFP250	200	33	0.085	TO-247
IRFP350	400	16	0.30	TO-247
IRFP450	500	14	0.40	TO-247

¹Not recommended for new designs

NOTE: Negative voltage indicates P-Channel MOSFET