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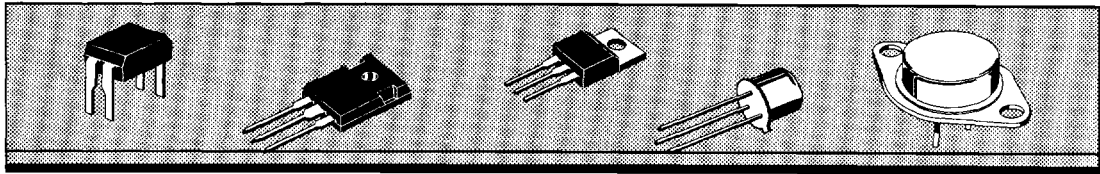
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Jameco Part Number 209234

# Industry Standard Commercial MOSFETs



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

<sup>1</sup>Not recommended for new designs

# Industry Standard Commercial MOSFETs (Cont'd)

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

<sup>1</sup>Not 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)	$r_{DS(ON)}$ ( $\Omega$ )	Package
IRFF210 <sup>1</sup>	200	2.2	1.5	TO-205
IRFF211 <sup>1</sup>	150	2.2	1.5	TO-205
IRFF212 <sup>1</sup>	200	1.8	2.4	TO-205
IRFF213 <sup>1</sup>	150	1.8	2.4	TO-205
IRFF220 <sup>1</sup>	200	3.5	0.80	TO-205
IRFF221 <sup>1</sup>	150	3.5	0.80	TO-205
IRFF222 <sup>1</sup>	200	3.0	1.2	TO-205
IRFF223 <sup>1</sup>	150	3.0	1.2	TO-205
IRFF230 <sup>1</sup>	200	5.5	0.40	TO-205
IRFF231 <sup>1</sup>	150	5.5	0.40	TO-205
IRFF232 <sup>1</sup>	200	4.5	0.60	TO-205
IRFF233 <sup>1</sup>	150	4.5	0.60	TO-205
IRFF310 <sup>1</sup>	400	1.35	3.6	TO-205
IRFF311 <sup>1</sup>	350	1.35	3.6	TO-205
IRFF312 <sup>1</sup>	400	1.15	5.0	TO-205
IRFF313 <sup>1</sup>	350	1.15	5.0	TO-205
IRFF320 <sup>1</sup>	400	2.5	1.8	TO-205
IRFF321 <sup>1</sup>	350	2.5	1.8	TO-205
IRFF322 <sup>1</sup>	400	2.0	2.5	TO-205
IRFF323 <sup>1</sup>	350	2.0	2.5	TO-205
IRFF330 <sup>1</sup>	400	3.5	1.0	TO-205
IRFF331 <sup>1</sup>	350	3.5	1.0	TO-205
IRFF332 <sup>1</sup>	400	3.0	1.5	TO-205
IRFF333 <sup>1</sup>	350	3.0	1.5	TO-205
IRFF420 <sup>1</sup>	500	1.6	3.0	TO-205
IRFF421 <sup>1</sup>	450	1.6	3.0	TO-205
IRFF422 <sup>1</sup>	500	1.4	4.0	TO-205

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

<sup>1</sup>Not recommended for new designs

**NOTE:** Negative voltage indicates P-Channel MOSFET