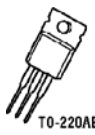
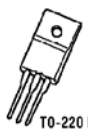
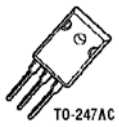
MOSFETs (Continued)


TO-220AB


TO-220 Fullpack


TO-247AC

HEXDIP

D-PAK
(TO-252AA)

D²PAK
(TO-263/SMD-220)

HEXFET™ Power MOSFETs — TO-220AB (continued)

N-Channel (continued)

Mfr.'s Type	V(BR)DSS (V)	RDS(on) (Ω)	ID @ 25°C (A)	PD (W)
IRFZ24N*	55	0.0700	17.00	45.00
IRF1010E*	60	0.0140	81.00	170.00
IRFZ44E*	60	0.0260	48.00	110.00
IRFZ34E*	60	0.0400	28.00	68.00
IRFZ14*	60	0.2000	10.00	43.00
IRF2807*	75	0.0130	71.00	150.00
IRF3710*	100	0.0280	46.00	150.00
IRF1310N*	100	0.0360	36.00	120.00
IRF540N*	100	0.0520	27.00	94.00
IRF530N*	100	0.1100	15.00	60.00
IRF520N*	100	0.2000	9.50	47.00
IRF510*	100	0.5400	5.60	43.00
IRF3415*	150	0.0420	37.00	150.00
IRF640N	200	0.1800	18.00	125.00
IRF630NS	200	0.4000	9.00	74.00
IRF620*	200	0.8000	5.20	50.00
IRF610*	200	1.5000	3.30	36.00
IRF644*	250	0.2800	14.00	125.00
IRF624*	250	1.1000	4.40	50.00
IRF614*	250	2.0000	2.70	36.00
IRF740*	400	0.5500	10.00	125.00
IRF730*	400	1.0000	5.50	74.00
IRF720*	400	1.8000	3.30	50.00
IRF710*	400	3.6000	2.00	36.00
IRF744*	450	0.6300	8.80	125.00
IRF840*	500	0.8500	8.00	125.00
IRF830*	500	1.5000	4.50	74.00
IRF820*	500	3.0000	2.50	50.00
IRFB9N60A†	600	0.7500	9.20	170.00
IRFBC40*	600	1.2000	6.20	125.00
IRFBC30*	600	2.2000	3.60	74.00
IRFBE30*	800	3.0000	4.10	125.00
IRFBF30*	900	3.7000	3.60	125.00
IRFBF20*	900	8.0000	1.70	54.00
IRFBG30*	1000	5.0000	3.10	125.00
IRFBG20*	1000	11.0000	1.40	54.00

Logic Level N-Channel

IRL3102*	20	0.0130	61.00	89.00
IRL3202*	20	0.0160	48.00	69.00
IRL3302*	20	0.0200	39.00	57.00
IRL3803*	30	0.0060	120.00	150.00
IRL2203N*	30	0.0070	100.00	130.00
IRL3103*	30	0.0140	56.00	83.00
IRL3303*	30	0.0260	34.00	56.00
IRL3705N*	55	0.0100	77.00	130.00
IRLZ44N*	55	0.0220	41.00	83.00
IRLZ34N*	55	0.0350	27.00	56.00
IRLZ24N*	55	0.0600	18.00	45.00
IRLZ14*	60	0.2000	10.00	43.00
IRL2910*	100	0.0260	48.00	150.00
IRL540*	100	0.0770	28.00	150.00
IRL530N*	100	0.1000	15.00	63.00
IRL520*	100	0.2700	9.20	60.00
IRL510*	100	0.5400	5.60	43.00
IRL640*	200	0.1800	17.00	125.00
IRL630*	200	0.4000	9.00	74.00

P-Channel

IRF4905*	–55	0.0200	–64.00	150.00
IRF9Z34N*	–60	0.1400	–18.00	88.00
IRF9Z14*	–60	0.5000	–6.70	43.00
IRF5210*	–100	0.0600	–35.00	150.00
IRF9540N*	–100	0.2000	–19.00	150.00
IRF9530N*	–100	0.3000	–12.00	88.00
IRF9520*	–100	0.6000	–6.80	60.00
IRF9510*	–100	1.2000	–4.00	43.00
IRF6215*	–150	0.2900	–11.00	83.00
IRF9640*	–200	0.5000	–11.00	125.00
IRF9630*	–200	0.8000	–6.50	74.00
IRF9620*	–200	1.5000	–2.50	40.00
IRF9610*	–200	3.0000	–1.80	20.00

Low Charge N-Channel

IRF740A*	400	0.6000	10.00	125.00
IRF730A*	400	1.0000	5.50	74.00
IRF840A*	500	0.8500	8.00	125.00
IRF830A*	500	1.4000	4.50	74.00
IRFBC40A*	600	1.2000	6.20	125.00
IRFBC30A*	600	2.2000	3.60	74.00

HEXFET™ Power MOSFETs — Fully Isolated TO-220 Fullpak

N-Channel

IRFI1010N	55	0.0120	44.00	47.00
IRFIZ48N	55	0.0160	36.00	42.00
IRFIZ46N	55	0.0200	31.00	40.00
IRFIZ44N	55	0.0240	28.00	38.00
IRFIZ34N	55	0.0400	19.00	31.00

HEXFET™ Power MOSFETs — Fully Isolated TO-220 Fullpak (cont.)

N-Channel (continued)

Mfr.'s Type	V(BR)DSS (V)	RDS(on) (Ω)	ID @ 25°C (A)	PD (W)
IRFIZ24N	55	0.0700	13.00	26.00
IRFI1310N	100	0.0360	22.00	45.00
IRFI540N	100	0.0520	18.00	42.00
IRFI530N	100	0.1100	11.00	33.00
IRFI520N	100	0.2000	7.20	27.00
IRFI640G	200	0.1800	9.80	40.00
IRFI630G	200	0.4000	5.90	32.00
IRFI614G	250	2.0000	2.10	23.00
IRFI740G	400	0.5500	5.40	40.00
IRFI720G	400	1.8000	2.60	30.00
IRFI840G	500	0.8500	4.60	40.00
IRFI820G	500	3.0000	2.10	30.00
IRFIBC20G	600	4.4000	1.70	30.00
IRFIBE30G	800	3.0000	2.10	35.00
IRFIBE20G	800	6.5000	1.40	30.00

Logic Level N-Channel

IRLI2505	55	0.0080	58.00	63.00
IRLIZ44N	55	0.0220	28.00	38.00
IRLIZ34N	55	0.0350	20.00	31.00
IRLI520G	100	0.2700	7.20	37.00
IRLI640G	200	0.1800	9.80	40.00
IRLI630G	200	0.4000	5.90	32.00
IRLI620G	200	0.8000	4.10	30.00

P-Channel

IRFI9Z34G	–60	0.1000	19.00	68.00
IRFI9540G	–100	0.1170	–23.00	3.80
IRFI9630G	–200	0.8000	–4.30	40.00
IRFI9620G	–200	1.5000	–3.00	30.00

Logic Level P-Channel

IRFI9Z24G	–60	0.2850	–8.50	37.00
IRFI9Z14G	–60	0.5000	–5.30	27.00
IRFI9530G	–100	0.0300	–7.70	38.00

HEXFET™ Power MOSFETs — TO-247

N-Channel

IRFP260N	200	0.0400	49.00	300.00
IRFP250N	200	0.0750	30.00	214.00
IRFP460A	500	0.2700	20.00	280.00
IRFP450A	500	0.4000	14.00	190.00
IRFPC50A	600	0.5800	11.00	180.00

P-Channel

IRFP9140N	–100	0.1170	–21.00	120.00

HEXFET™ Power MOSFETs — TO-247AC

N-Channel

IRFP064N	55	0.0080	98.00	150.00
IRFP054N	55	0.0120	72.00	130.00
IRFP048N	55	0.0160	62.00	130.00
IRFP044N	55	0.0200	49.00	100.00
IRFP3710	100	0.0280	51.00	180.00
IRFP140N	100	0.0520	27.00	94.00
IRFP150N	100	0.0550	41.00	230.00
IRFP260N	200	0.0550	46.00	280.00
IRFP250N	200	0.0850	30.00	190.00
IRFP240	200	0.1800	20.00	150.00
IRFP264	250	0.0750	38.00	280.00
IRFP254	250	0.1400	23.00	190.00
IRFP350	400	0.3000	16.00	190.00
IRFP22N50A	500	0.2300	22.00	277.00
IRFP460	500	0.2700	20.00	280.00
IRFP450	500	0.4000	14.00	190.00
IRFP448	500	0.6000	11.00	180.00
IRFP440	500	0.8500	8.80	150.00
IRFPC60	600	0.4000	16.00	280.00
IRFPC50	600	0.6000	11.00	180.00
IRFPC30	600	2.2000	4.30	100.00
IRFPE50	800	1.2000	7.80	190.00
IRFPE40	800	2.0000	5.40	150.00
IRFPF50	900	1.6000	6.70	190.00
IRFPF40	900	2.5000	4.70	150.00
IRFPG50	1000	2.0000	6.10	190.00
IRFPG40	1000	3.5000	4.30	150.00

P-Channel

IRFP9140	–100	0.2000	–21.00	180.00
IRFP9240	–200	0.5000	–12.00	150.00

HEXFET™ Power MOSFETs — HEXDIP

N-Channel

Mfr.'s Type	V(BR)DSS (V)	RDS(on) (Ω)	ID @ 25°C (A)	PD (W)
IRFD024	60	0.1000	2.50	1.30
IRFD014	60	0.2000	1.70	1.30
IRFD120	100	0.2700	1.30	1.30
IRFD110	100	0.5400	1.00	1.30
IRFD220	200	0.8000	0.80	1.30
IRFD210	200	1.5000	0.60	1.30
IRFD214	250	2.0000	0.57	1.30
IRFD310	400	3.6000	0.42	1.30
IRFD420	500	3.0000	0.46	1.30
IRFDC20	600	4.4000	0.32	1.30

Logic Level N-Channel

IRLD024	60	0.1000	2.50	1.30
IRLD014	60	0.2000	1.70	1.30
IRLD120	100	0.2700	1.30	1.30
IRLD110	100	0.5400	1.00	1.30

P-Channel

IRFD9024	–60	0.2800	–1.60	1.30
IRFD9014	–60	0.5000	–1.10	1.30
IRFD9120	–100	0.6000	–1.00	1.30
IRFD9110	–100	1.2000	–0.70	1.30
IRFD9220	–200	1.5000	–0.56	1.30
IRFD9210	–200	3.0000	–0.40	1.30

HEXFET™ Power MOSFETs — D-PAK

Also available in TO-251AA thru-hole equivalent, substitute "U" for "R" in Mfr.'s Type number (example: IRFR024N becomes IRFU024N).

N-Channel

IRFR4105	55	0.0450	25.00	48.00
IRFU4105	55	0.0450	25.00	48.00
IRFR024N	55	0.0750	16.00	38.00
IRFU024N	55	0.0750	16.00	38.00
IRFR014	60	0.2000	7.70	25.00
IRFR120N	100	0.2100	9.10	39.00
IRFU120N	100	0.2100	9.10	39.00
IRFR220N	200	0.8000	4.80	42.00
IRFU220N	200	0.8000	0.80	1.30
IRFR210	200	1.5000	2.60	25.00
IRFU210	200	1.5000	2.60	25.00
IRFR214	250	2.0000	2.20	25.00
IRFR320	400	1.8000	3.10	42.00
IRFU320	400	1.8000	3.10	42.00
IRFR310	400	3.6000	1.70	25.00
IRFR420	500	3.0000	2.40	42.00
IRFU420	500	3.0000	2.40	42.00
IRFR1N60A	600	7.0000	1.40	36.00

P-Channel

IRFR5305	–55	0.0650	–28.00	89.00
IRFU5305	–55	0.0650	–28.00	89.00
IRFR5505	–55	0.1100	–18.00	57.00
IRFU5505	–55	0.1100	–18.00	57.00
IRFU9024N	–55	0.1750	–11.00	38.00
IRFR9024	–60	0.2800	–8.80	42.00
IRFU9014	–60	0.5000	–5.10	25.00
IRFR9120N	–100	0.4800	–6.50	39.00
IRFU9120	–100	0.4800	–6.50	39.00
IRFR9120	–100	0.6000	–5.60	42.00
IRFR9220	–200	1.5000	–3.60	42.00
IRFR9210	–200	3.0000	–1.90	25.00
IRFR9310	–400	7.0000	–1.80	50.00

Logic Level N-Channel

IRLR3103	30	0.0190	46.00	69.00
IRLU3103	30	0.0190	46.00	69.00
IRLR024N	55	0.0650	17.00	38.00
IRLU024N	55	0.0650	17.00	38.00
IRLU014	60	0.2000	7.70	25.00
IRLR120N	100	0.1850	11.00	39.00
IRLR120	100	0.2700	7.70	42.00
IRLR110	100	0.5400	4.30	25.00

HEXFET™ Power MOSFETs — D²PAK — *NEW*

N-Channel

IRF3205S	55	0.0080	110.00	200.00
IRF1010NS	55	0.0110	84.00	3.80
IRFZ48NS	55	0.0160	64.00	140.00
IRFZ46NS	55	0.0200	53.00	120.00
IRFZ44NS	55	0.0220	49.00	110.00
IRFZ34NS	55	0.0400	29.00	68.00
IRFZ24NS	55	0.0700	17.00	45.00
IRFZ44ES	60	0.0230	48.00	110.00
IRFZ14S	60	0.2000	10.00	—
IRF2807S	75	0.0130	82.00	200.00

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*Also Available in D²PAK (TO-263/SMD-220). Add suffix S to the Mfr.'s Type Number. †Also available in D²PAK IRFS11N50A and IRFS9N60A. ‡Indicates "low VGS(th)" which can operate at VGS = 2.7 V.