

**HEXFET™ Power MOSFETS**

Part Number	V(BR)DSS Drain-to-Source Breakdown Voltage (Volts)	RDS(on) On-State Resistance (Ohms)	I <sub>D</sub> Continuous Drain Current 25° C (Amps)	Q <sub>g</sub> Total Gate Charge (nC)	R <sub>th</sub> JC Max Thermal Resistance (°C/W)	P <sub>D</sub> @T <sub>C</sub> =25°C Max Power Dissipation (Watts)	Fax-on- Demand Number	Case Style, (Case Outline) (1)
<b>Low Charge N-Channel</b>								
IRF740LC	400	0.55	10	39	1.0	125	91068	TO-220AB (H12)
IRF840LC	500	0.85	8.0	39	1.0	125	91069	
IRFBC40LC	600	1.2	6.2	39	1.0	125	91070	

Part Number	V(BR)DSS Drain-to-Source Breakdown Voltage (Volts)	RDS(on) On-State Resistance (Ohms)	I <sub>D</sub> Continuous Drain Current 25° C (Amps)	I <sub>D</sub> Continuous Drain Current 100° C (Amps)	R <sub>th</sub> JC Max Thermal Resistance (°C/W)	P <sub>D</sub> @T <sub>C</sub> =25°C Power Dissipation (Watts)	Fax-on- Demand Number	Case Style, (Case Outline) (1)
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**Discrete**

**N-Channel**

IRFZ34N	55	0.040	26	18	2.7	56	91276	TO-220AB (H12)
IRFZ46N	55	0.020	46	33	1.7	88	91277	
IRF1010N	55	0.012	72	51	1.2	130	91278	
IRF3205	55	0.008	98	69	1.0	150	91279	
IRFZ14	60	0.20	10	7.2	3.5	43	90507	
IRFZ24N	55	0.07	17	12	3.3	45	91354	
IRFZ34N	55	0.040	26	18	2.7	56	91276	
IRFZ44N	55	0.024	41	29	1.8	83	91303	
IRFZ48	60	0.018	50	50	0.8	190	90758	
IRF510	100	0.54	5.6	4.0	3.5	43	90325	
IRF520	100	0.27	9.2	6.5	2.5	60	90313	
IRF530N	100	0.11	15	11	2.4	60	91351	
IRF540N	100	0.052	27	19	1.6	94	91341	
IRF610	200	1.5	3.3	2.1	3.5	36	90326	
IRF620	200	0.8	5.2	3.3	2.5	50	90317	
IRF630	200	0.40	9.0	5.7	1.7	74	90309	
IRF640	200	0.18	18	11	1.0	125	90374	
IRF614	250	2.0	2.7	1.7	3.5	36	90475	
IRF624	250	1.1	4.4	2.8	2.5	50	90472	
IRF634	250	0.45	8.1	5.1	1.7	74	90476	
IRF644	250	0.28	14	8.5	1.0	125	90527	
IRF710	400	3.6	2.0	1.2	3.5	36	90327	
IRF720	400	1.8	3.3	2.1	2.5	50	90315	
IRF730	400	1.0	5.5	3.3	1.7	74	90308	
IRF740	400	0.55	10	6.3	1.0	125	90375	
IRF734	450	1.2	4.9	3.1	1.7	74	90999	
IRF744	450	0.63	8.8	5.6	1.0	125	91000	
IRF820	500	3	2.5	1.6	2.5	50	90324	
IRF830	500	1.5	4.5	2.9	1.7	74	90311	
IRF840	500	0.85	8.0	5.1	1.0	125	90376	
IRFBC20	600	4.4	2.2	1.4	2.5	50	90623	
IRFBC30	600	2.2	3.6	2.3	1.7	74	90482	
IRFBC40	600	1.2	6.2	3.9	1.0	125	90506	
IRFBE20	800	6.5	1.8	1.2	2.3	54	90610	
IRFBE30	800	3.0	4.1	2.6	2.0	125	90613	
IRFBF20	900	8.0	1.7	1.1	2.3	54	90607	

TO-247AC



TO-220AB





Part Number	V(BR)DSS Drain-to-Source Breakdown Voltage (Volts)	RDS(on) On-State Resistance (Ohms)	I <sub>D</sub> Continuous Drain Current		R <sub>θ</sub> JC Max Thermal Resistance (°C/W)	P <sub>D</sub> @T <sub>C</sub> =25°C Power Dissipation (Watts)	Fax-on- Demand Number	Case Style, (Case Outline) (1)	
			25° C (Amps)	100° C (Amps)					
<b>Discrete</b>									
IRFBF30	900	3.7	3.6	2.3	1.0	125	90616	TO-220AB (H12)	
IRFBG20	1000	11	1.4	0.86	2.3	54	90604		
IRFBG30	1000	5.0	3.1	2.0	1.0	125	90620		
<b>Logic Level N-Channel</b>									
IRL2203N	30	0.007	100	71	1.2	130	91366		
IRL3803	30	0.006	120	86	1.0	150	91301		
IRL3705N	55	0.010	77	54	1.2	130	91370		
IRLZ14	60	0.20	10	7.2	3.5	43	90556		
IRLZ24N	55	0.06	18	13	3.3	45	91357		
IRLZ34N	55	0.035	27	19	2.7	56	91307		
IRLZ44N	55	0.022	41	29	1.8	83	91346		
IRL510	100	0.54	5.6	4.0	3.5	43	90560		
IRL520	100	0.27	9.2	6.5	2.5	60	90561		
IRL530	100	0.16	15	10	1.7	88	90562		
IRL540	100	0.077	28	20	1.0	150	90563		
IRL620	200	0.80	5.2	3.3	2.5	50	91217		
IRL630	200	0.40	9.0	5.7	1.7	74	91255		
<b>P-Channel</b>									
IRF4905	-55	0.020	-64	-45	1.0	150	91280		
IRF9Z14	-60	0.5	-6.7	-4.7	3.5	43	90736		
IRF9Z24	-60	0.28	-11	-7.7	2.5	60	90647		
IRF9Z34	-60	0.14	-18	-13	1.7	88	90648		
IRF9510	-100	1.2	-4.0	-2.8	3.5	43	90390		
IRF9520	-100	0.6	-6.8	-4.8	2.5	60	90319		
IRF9530	-100	0.3	-12	-8.2	1.7	88	90320		
IRF9540	-100	0.2	-19	-13	1.0	150	90421		
IRF9610	-200	3.0	-1.8	-1.0	6.4	20	90350		
IRF9620	-200	1.5	-2.5	-2.0	3.1	40	90351		
IRF9630	-200	0.8	-6.5	-4.0	1.7	74	90352		
IRF9640	-200	0.5	-11	-6.8	1.0	125	90422		

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IRFP350LC	400	0.30	18	70	0.65	190	91229	TO-247AC (H13)
IRFP360LC	400	0.20	23	98	0.45	280	91230	
IRFP450LC	500	0.40	16	70	0.65	190	91231	
IRFP460LC	500	0.27	20	98	0.45	280	91232	
IRFPC50LC	600	0.60	13	70	0.65	190	91233	
IRFPC60LC	600	0.40	16	98	0.45	280	91234	

(1) See page 105 for Case Outline information