HEXFET® Power MOSFETs

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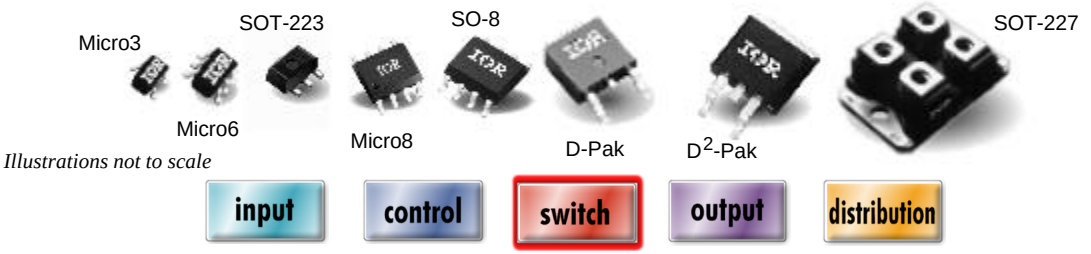
Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Surface Mount Packages								**Micro3**
N-Channel		*Logic Level*						
IRLML2402*	20	0.25	1.2	0.95	230	0.54	91257	H1
IRLML2803	30	0.25	1.2	0.93	230	0.54	91258	
P-Channel		*Logic Level*						
IRLML6302*	-20	0.6	-0.62	-4.8	230	0.54	91259	H1
IRLML5103	-30	0.6	-0.61	-4.8	230	0.54	91260	

** Indicates low VGS(th), which can operate at VGS = 2.7V*

1 *Measured at ambient for Micro3, Micro6, Micro8, SO-8, and SOT-223 package styles. All others measured at case.*



Illustrations not to scale

To view a datasheet, click on the part number

HEXFET® Power MOSFETs

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Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Surface Mount Packages								**Micro6**
N-Channel		*Logic Level*						
IRLMS1902	20	0.10	3.2	2.6	75	1.7	91540	H2
IRLMS1503	30	0.10	3.2	2.6	75	1.7	91508	
P-Channel		*Logic Level*						
IRLMS6702*	-20	0.20	-2.3	-1.9	75	1.7	91414	H2
IRLMS5703	-30	0.20	-2.3	-1.9	75	1.7	91413	

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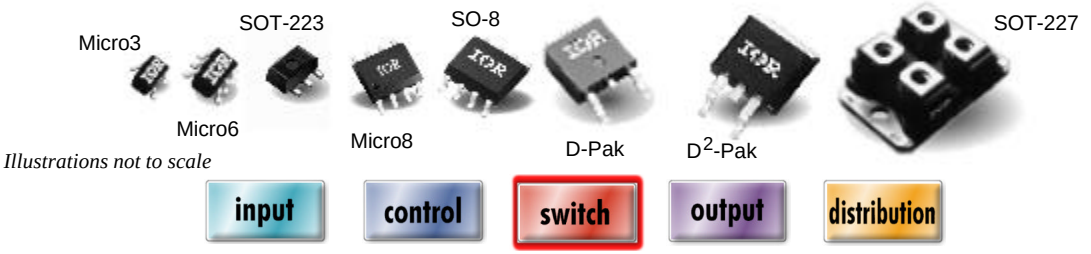

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Surface Mount Packages

Micro8

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
N-Channel		*Logic Level*						
IRF7601*	20	0.035	5.7	4.6	70	1.8	91261	H3
IRF7603	30	0.035	5.6	4.5	70	1.8	91262	
Dual N-Channel		*Logic Level*						
IRF7501*	20	0.135	2.4	1.9	100	1.2	91265	H3
IRF7503	30	0.135	2.4	1.9	100	1.25	91266	
P-Channel		*Logic Level*						
IRF7604*	-20	0.09	-3.6	-2.9	70	1.8	91263	H3
IRF7606	-30	0.09	-3.6	-2.9	70	1.8	91264	
Dual P-Channel		*Logic Level*						
IRF7504*	-20	0.27	-1.7	-1.4	100	1.25	91267	H3
IRF7506	-30	0.27	-1.7	-1.4	100	1.25	91268	
Dual N- and P-Channel *Logic Level*								
IRF7507*	20	0.135	2.4	1.9	100	1.25	91269	H3
	-20	0.27	-1.7	-1.4				
IRF7509	30	0.135	2.4	1.9	100	1.25	91270	
	-30	0.27	-1.7	-1.4				

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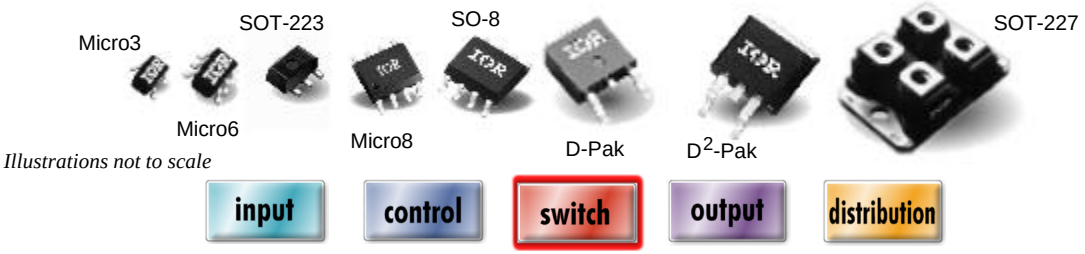

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Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Surface Mount Packages								**SO-8**
N-Channel								
IRF7413	30	0.011	13	9.2	50	2.5	91330	H4
IRF7413A	30	0.0135	12	8.4	50	2.5	91613	
IRF9410	30	0.03	7	5.8	50	2.5	91562	
Dual N-Channel								
IRF7311	20	0.029	6.6	5.3	62.5	2.0	91435	H4
IRF7313	30	0.029	6.5	5.2	62.5	2.0	91480	
IRF7333	30	0.10	3.5	2.8	62.5	2.0	91700	
	30	0.050	4.9	3.9	62.5	2.0	91700	
IRF9956	30	0.10	3.5	2.8	62.5	2.0	91559	
Dual P-Channel								
IRF7314	-20	0.058	-5.3	-4.3	62.5	2.0	91435	H4
IRF7316	-30	0.058	-4.9	-3.9	62.5	2.0	91505	
IRF9953	-30	0.25	-2.3	-1.8	62.5	2.0	91560	

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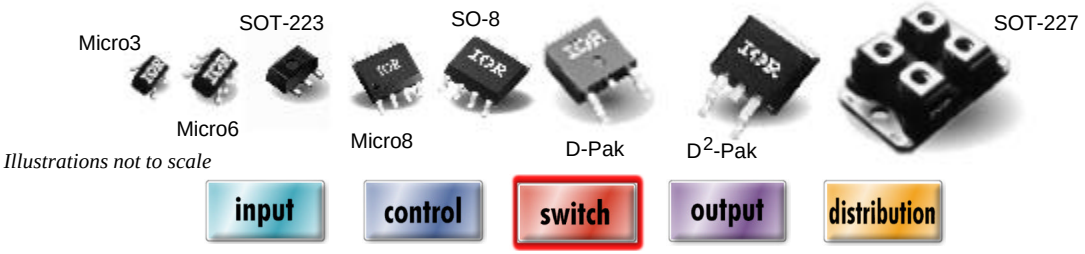

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HEXFET® Power MOSFETs

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Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Surface Mount Packages								**SO-8**
Dual N- and P-Channel								
IRF7317	20	0.029	6.6	5.3	62.5	2.0	91568	H4
	-20	0.058	-5.3	-4.3	62.5	2.0		
IRF9952	30	0.10	3.5	2.8	62.5	2.0	91562	
	-30	0.25	-2.3	-1.8	62.5	2.0	91562	
IRF7319	30	0.029	6.5	5.2	62.5	2.0	91606	
	-30	0.058	-4.9	-3.9	62.5	2.0		

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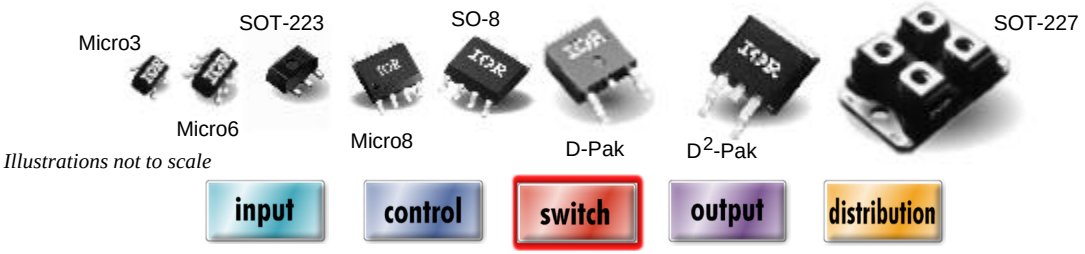

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Surface Mount Packages

SO-8

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
N-Channel		*Logic Level*						
IRF7401	20	0.022	8.7	7.0	50	2.5	91244	H4
IRF7201	30	0.030	7.0	5.6	50	2.5	91100	
IRF7403	30	0.022	8.5	5.4	50	2.5	91245	
Dual N-Channel		*Logic Level*						
IRF7101	20	0.10	3.5	2.3	62.5	2.0	90871	H4
IRF7301	20	0.050	5.2	4.1	62.5	2.0	91238	
IRF7303	30	0.050	4.9	3.9	62.5	2.0	91239	
IRF7103	50	0.130	3.0	2.3	62.5	2.0	91095	
P-Channel		*Logic Level*						
IRF7204	-20	0.060	-5.3	-4.2	50	2.5	91103	H4
IRF7404	-20	0.040	-6.7	-5.4	50	2.5	91246	
IRF7205	-30	0.070	-4.6	-3.7	50	2.5	91104	
IRF7406	-30	0.045	-5.8	-3.7	50	2.5	91247	
IRF7416	-30	0.02	-10	-7.1	50	2.5	91356	

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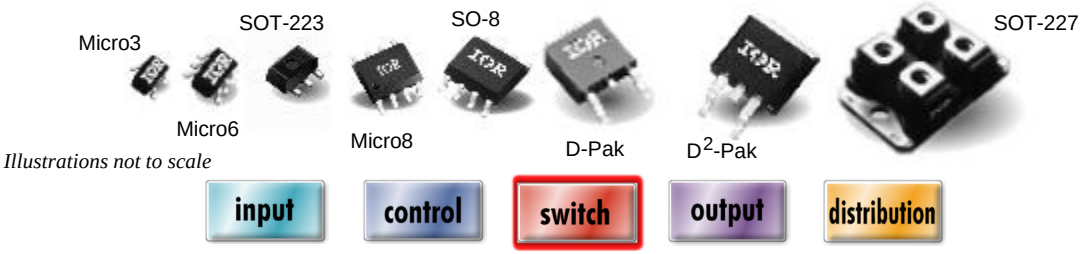

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Surface Mount Packages

SO-8

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Dual P-Channel		*Logic Level*						
IRF7104	-20	0.250	-2.3	-1.8	62.5	2.0	91096	H4
IRF7304	-20	0.090	-4.3	-3.4	62.5	2.0	91240	
IRF7306	-30	0.10	-3.6	-2.9	62.5	2.0	91241	
Dual N- and P-Channe		*Logic Level*						
IRF7307	20	0.050	4.3	3.4	90	1.4	91242	H4
	-20	0.090	-3.6	-2.9				
IRF7105	25	0.109	3.5	2.8	62.5	2.0	91097	
	-25	0.25	-2.3	-1.8	62	2		
IRF7309	30	0.050	4.9	3.9	62.5	2.0	91243	
	-30	0.10	-3.6	-2.9				

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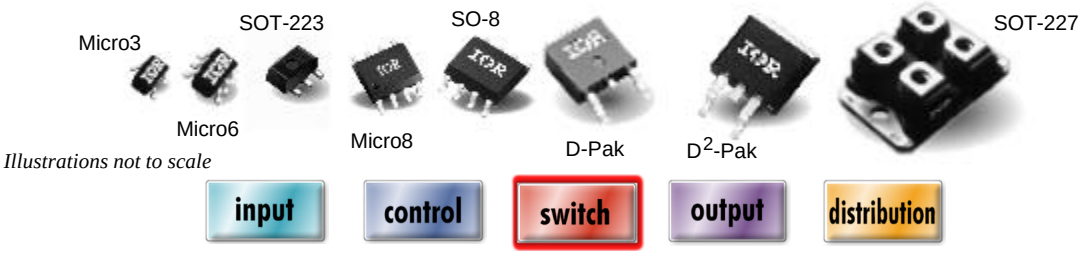

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Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Surface Mount Packages								**SOT-223**
N-Channel								
IRFL4105	55	0.045	3.7	3.0	60	2.1	91381	H6
IRFL110	100	0.54	1.5	0.96	60	2.0	90861	
IRFL4310	100	0.20	1.6	1.3	60	2.1	91368	
IRFL210	200	1.5	0.96	0.6	60	2.0	90868	
IRFL214	250	2.0	0.79	0.5	60	2.0	90862	
P-Channel								
IRFL9110	-100	1.2	-1.1	-0.69	60	2.0	90864	H6
N-Channel		*Logic Level*						
IRLL3303	30	0.031	4.6	3.7	60	2.1	91379	H6
IRLL014N	55	0.14	2.0	1.6	60	2.1	91499	
IRLL2705	55	0.04	3.8	3.0	60	2.1	91380	

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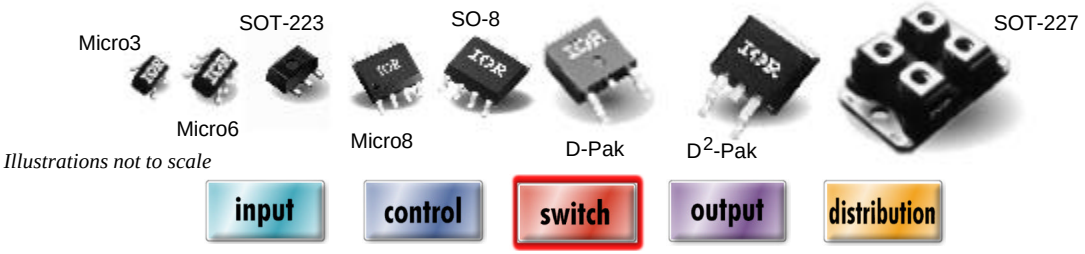

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Surface Mount Packages

D-Pak

N-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
IRFR3303	30	0.031	33	21	2.2	57	91642	H7
IRFR024N	55	0.075	16	10	3.3	38	91336	
IRFR4105	55	0.045	25	16	2.7	48	91302	
IRFR1205	55	0.027	37	23	1.8	69	91318	
IRFR110	100	0.54	4.3	2.7	5	25	90524	
IRFR120N	100	0.21	9.1	5.8	3.2	39	91365	
IRFR3910	100	0.11	15	9.5	2.4	52	91364	
IRFR210	200	1.5	2.6	1.7	5	25	90526	
IRFR220	200	0.8	4.8	3	3	42	90525	
IRFR214	250	2	2.2	1.4	5	25	90703	
IRFR224	250	1.1	3.8	2.4	3	42	90600	
IRFR310	400	3.6	1.7	1.1	5	25	90597	
IRFR320	400	1.8	3.1	2	3	42	90598	
IRFR420	500	3	2.4	1.5	3	42	90599	
IRFRC20	600	4.4	2	1.3	3	42	90637	

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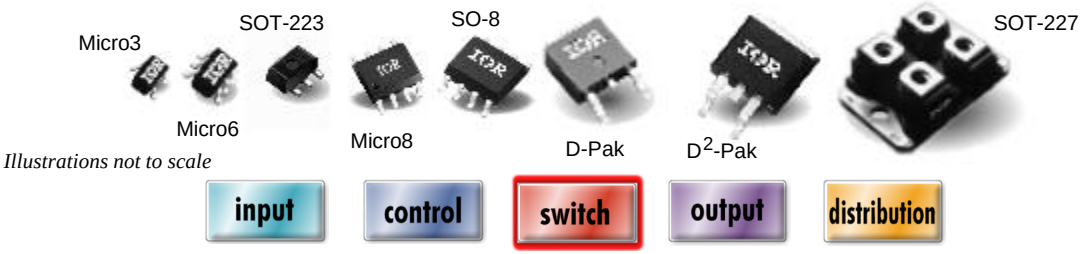

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Surface Mount Packages

D-Pak

P-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
IRFR5505	-55	0.11	-18	-11	2.2	57	91610	H7
IRFR5305	-55	0.065	-28	-18	1.4	89	91402	
IRFR9014	-60	0.5	-5.1	-3.2	5	25	90654	
IRFR9024	-60	0.28	-8.8	-5.6	3	42	90655	
IRFR9110	-100	1.2	-3.1	-2	5	25	90519	
IRFR9120	-100	0.6	-5.6	-3.6	3	42	90520	
IRFR9120N	-100	0.48	-6.5	-4.1	3.2	39	91507	
IRFR9210	-200	3	-1.9	-1.2	5	25	90521	
IRFR9220	-200	1.5	-3.6	-2.3	3	42	90522	
IRFR9214	-250	3.0	-2.7	-1.7	2.5	50	91658	
IRFR9310	-400	7.0	-1.8	-1.1	2.5	50	91663	

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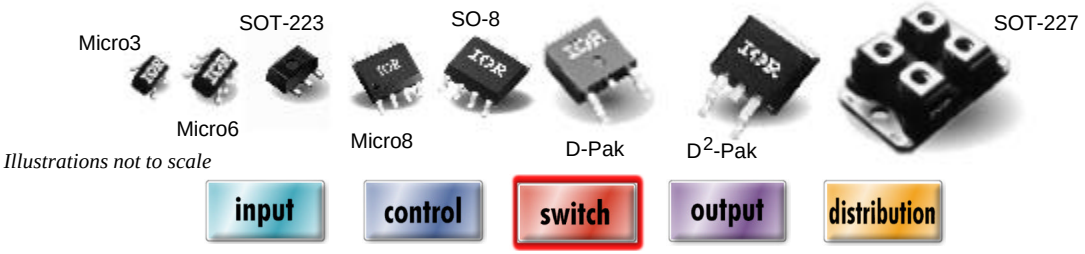

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Surface Mount Packages

D-Pak

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
N-Channel		*Logic Level*						
IRLR2703	30	0.045	22	14	3.3	38	91335	H7
IRLR3303	30	0.031	33	21	2.2	57	91316	
IRLR3103	30	0.019	46	29	1.8	69	91333	
IRLR024N	55	0.065	17	11	3.3	38	91363	
IRLR2705	55	0.04	24	15	2.7	46	91317	
IRLR2905	55	0.027	36	23	1.8	69	91334	
IRLR120N	100	0.185	11	6.9	3.2	39	91541	
IRLR3410	100	0.10	15	9.5	2.4	52	91607	

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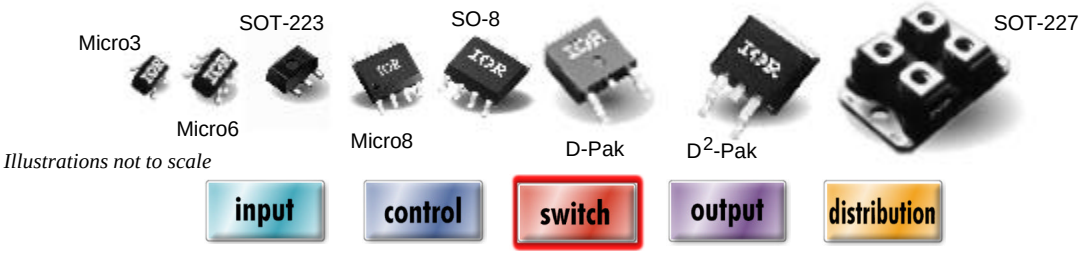

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Surface Mount Packages

D²Pak

N-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance [1] (°C/W)	P_D Max. Power Dissipation [1] (W)	Fax on Demand Number	Case Outline Key
IRFZ24NS	55	0.07	17	12	3.3	45	91355	H10
IRFZ34NS	55	0.04	29	20	2.2	68	91311	
IRFZ44NS	55	0.022	49	35	1.4	110	91315	
IRFZ46NS	55	0.020	53	37	1.3	120	91305	
IRFZ48NS	55	0.016	64	45	1.1	140	91408	
IRF1010NS	55	0.011	84	60	40	3.8	91372	
IRF3205S	55	0.008	110	80	0.75	200	91304	
IRFZ44ES	60	0.023	48	34	1.4	110	91714	
IRF1010ES	60	0.012	83	59	0.90	170	91720	
IRF2807S	75	0.013	71	50	1.0	150	91518	
IRF520NS	100	0.2	9.5	6.7	3.2	47	91340	
IRF530NS	100	0.11	15	11	2.4	63	91352	
IRF540NS	100	0.052	27	19	1.6	110	91342	
IRF1310NS	100	0.036	36	25	1.3	120	91514	
IRF3710S	100	0.028	46	33	1.0	150	91310	
IRF3315S	150	0.082	21	15	1.6	94	91617	
IRF3415S	150	0.042	37	26	1.0	150	91509	
IRFBC20S	600	4.4	2.2	1.4	2.5	50	9.1014	
IRFBC30S	600	2.2	3.6	2.3	1.7	74	91015	
IRFBC40S	600	1.2	6.2	3.9	1.0	130	91016	

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Illustrations not to scale

input control switch output distribution

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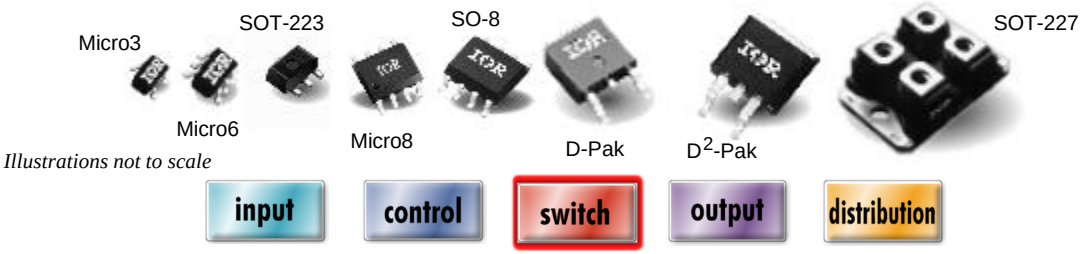
Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Surface Mount Packages								**D²Pak**
IRFBF20S	900	8.0	1.7	1.1	2.3	54	91665	H10
P-Channel								
IRF5305S	-55	0.06	-31	-22	1.4	110	91386	H10
IRF4905S	-55	0.02	-74	-52	40	3.8	91478	
IRF9520NS	-100	0.48	-6.7	-4.8	3.2	47	91522	
IRF9530NS	-100	0.20	-14	-9.9	2.0	75	91523	
IRF9540NS	-100	0.117	-19	-13	1.6	94	91483	
IRF5210S	-100	0.06	-35	-25	1.0	150	91405	

** Indicates low VGS(th), which can operate at VGS = 2.7V*

1 *Measured at ambient for Micro3, Micro6, Micro8, SO-8, and SOT-223 package styles. All others measured at case.*



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Surface Mount Packages

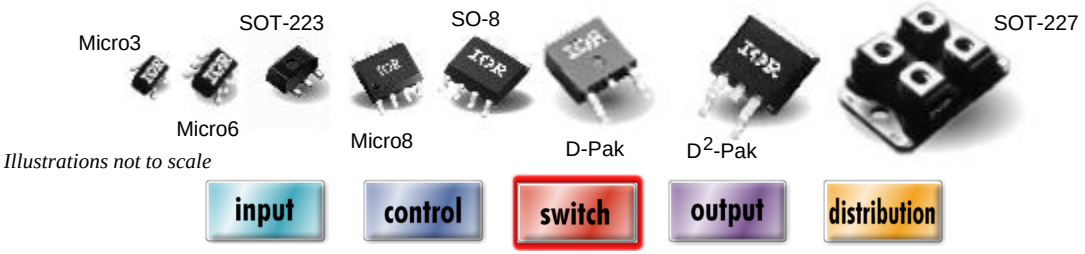
D²Pak

N-Channel — *Logic Level*

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
IRL3302S	20	0.020	39	25	2.2	57	91692	H10
IRL3202S	20	0.016	48	30	1.8	69	91675	
IRL3102S	20	0.013	61	39	1.4	89	91691	
IRL3402S	20	0.01	85	54	1.1	110	91693	
IRL3502S	20	0.007	110	67	0.89	140	91676	
IRL2703S	30	0.04	24	17	3.3	45	91360	
IRL3303S	30	0.026	38	27	2.2	68	91323	
IRL3103S	30	0.014	64	45	1.4	110	91338	
IRL2203NS	30	0.007	116	82	0.90	170	91367	
IRL3803S	30	0.006	140	98	0.75	200	91319	
IRLZ24NS	55	0.06	18	13	3.3	45	91358	
IRLZ34NS	55	0.035	30	21	2.2	68	91308	
IRLZ44NS	55	0.022	47	33	1.4	110	91347	
IRL3705NS	55	0.01	89	63	0.90	170	91502	
IRL2505S	55	0.008	104	74	0.75	200	91326	
IRLZ44S	60	0.028	50	36	1.0	150	90906	
IRL530NS	100	0.1	15	11	2.4	63	91349	
IRL2910S	100	0.026	48	34	1.0	150	91376	

** Indicates low VGS(th), which can operate at VGS = 2.7V*

1 *Measured at ambient for Micro3, Micro6, Micro8, SO-8, and SOT-223 package styles. All others measured at case.*



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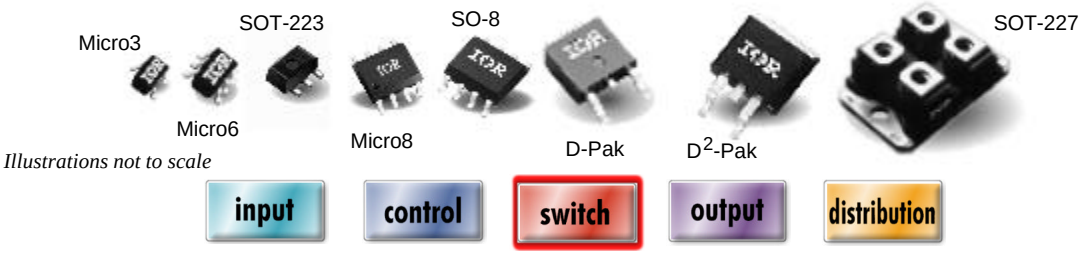
Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance 1 (°C/W)	P_D Max. Power Dissipation 1 (W)	Fax on Demand Number	Case Outline Key
Surface Mount Packages								**SOT-227**
N-Channel			*Fully Isolated Low Charge*					
FA38SA50LC	500	0.13	38	24	0.25	500	91615	H21
FA57SA50LC	500	0.08	57	36	0.20	625	91650	

** Indicates low VGS(th), which can operate at VGS = 2.7V*

1 *Measured at ambient for Micro3, Micro6, Micro8, SO-8, and SOT-223 package styles. All others measured at case.*



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Through-Hole Packages

I-Pak

N-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
IRFU3303	30	0.031	33	21	2.2	57	91642	H8
IRFU024N	55	0.075	16	10	3.3	38	91336	
IRFU4105	55	0.045	25	19	2.7	48	91302	
IRFU1205	55	0.027	37	23	1.8	69	91318	
IRFU110	100	0.54	4.3	2.7	5.0	25	90524	
IRFU120N	100	0.21	9.1	5.8	3.2	39	91365	
IRFU3910	100	0.11	15	9.5	2.4	52	91364	
IRFU210	200	1.5	2.6	1.7	5.0	25	90526	
IRFU220	200	0.80	4.8	3.0	3.0	42	90525	
IRFU214	250	2.0	2.2	1.4	5.0	25	90703	
IRFU224	250	1.1	3.8	2.4	3.0	42	90600	
IRFU310	400	3.6	1.7	1.1	5.0	25	90597	
IRFU320	400	1.8	3.1	2.0	3.0	42	90598	
IRFU420	500	3.0	2.4	1.5	3.0	42	90599	
IRFUC20	600	4.4	2.0	1.3	3.0	42	90637	

*** Not rated*


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TO-262


TO-220AB


TO-220 FullPak


TO-247

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input control switch output distribution

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Through-Hole Packages

I-Pak

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
P-Channel								
IRFU5505	-55	0.11	-18	-11	2.2	57	91610	H8
IRFU5305	-55	0.065	-28	-18	1.4	89	91402	
IRFU9014	-60	0.50	-5.1	-3.2	5.0	25	90654	
IRFU9024	-60	0.28	-8.8	-5.6	3.0	42	90655	
IRFU9110	-100	1.2	-3.1	-2.0	5.0	25	90519	
IRFU9120	-100	0.60	-5.6	-3.6	3.0	42	90520	
IRFU9120N	-100	0.48	-6.5	-4.1	3.2	39	91507	
IRFU9210	-200	3.0	-1.9	-1.2	5.0	25	90521	
IRFU9220	-200	1.5	-3.6	-2.3	3.0	42	90522	
IRFU9214	-250	3.0	-2.7	-1.7	2.5	50	91658	
IRFU9310	-400	7.0	-1.8	-1.1	2.5	50	91663	
N-Channel		*Logic Level*						
IRLU2703	30	0.045	22	14	3.3	38	91335	H8
IRLU3303	30	0.031	33	21	2.2	57	91316	
IRLU3103	30	0.019	46	29	1.8	69	91333	
IRLU024N	55	0.065	17	11	3.3	38	91363	
IRLU2705	55	0.04	24	17	15	46	91317	
IRLU2905	55	0.027	36	23	1.8	69	91334	
IRLU120N	100	0.185	11	6.9	3.2	39	91541	
IRLU3410	100	0.10	15	9.5	2.4	52	91607	

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Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
Through-Hole Packages								**HEXDIP**
N-Channel								
IRFD014	60	0.2	1.7	1.2	120	1.3	90700	H9
IRFD024	60	0.1	2.5	1.8	120	1.3	90699	
IRFD110	100	0.54	1.0	0.71	120	1.3	90328	
IRFD120	100	0.27	1.3	0.94	120	1.3	90385	
IRFD210	200	1.5	0.6	0.38	120	1.3	90386	
IRFD220	200	0.8	0.8	0.50	120	1.3	90417	
IRFD214	250	2.0	0.57	0.32	120	1.3	91271	
IRFD224	250	1.1	0.76	0.43	120	1.3	91272	
IRFD310	400	3.6	0.42	0.23	120	1.3	91225	
IRFD320	400	1.8	0.60	0.33	120	1.3	91226	
IRFD420	500	3.0	0.46	0.26	120	1.3	91227	
IRFDC20	600	4.4	0.32	0.21	120	1.3	91228	

*** Not rated*


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Through-Hole Packages

TO-220

N-Channel *Low Charge*

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Qg Total Gate Charge (nC)	Fax on Demand Number	Case Outline Key
IRF737LC	300	0.75	6.1	**	1.7	74	3.9	91314	H11
IRF740LC	400	0.55	10	**	1.0	125	39	91068	
IRF840LC	500	0.85	8.0	**	1.0	125	39	91069	
IRFBC40LC	600	1.2	6.2	**	1.0	125	39	91070	

** *Not rated*


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TO-247

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Through-Hole Packages

TO-220AB

N-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
IRFZ24N	55	0.07	17	12	3.3	45	91354	H12
IRFZ34N	55	0.04	26	18	2.7	56	91276	
IRFZ44N	55	0.024	41	29	1.8	83	91303	
IRFZ46N	55	0.02	46	33	1.7	88	91277	
IRFZ48N	55	0.016	53	37	1.6	94	91406	
IRF1010N	55	0.012	72	51	1.2	130	91278	
IRF3205	55	0.008	98	69	1.0	150	91279	
IRFZ34E	60	0.042	28	20	2.2	68	91672	
IRFZ44E	60	0.023	48	34	1.4	110	91671	
IRF1010E	60	0.012	81	57	0.90	170	91670	
IRF2807	75	0.013	71	50	1.0	150	91517	
IRF520N	100	0.20	9.5	6.7	9.5	47	91339	
IRF530N	100	0.11	15	11	2.4	60	91351	
IRF540N	100	0.052	27	19	1.6	94	91341	
IRF1310N	100	0.036	36	25	1.3	120	91611	
IRF3710	100	0.028	46	33	1.0	150	91309	
IRF3315	150	0.082	21	15	1.6	94	91623	
IRF3415	150	0.042	37	26	1.0	150	91477	
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	

*** Not rated*

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TO-262

TO-220AB

TO-220 FullPak

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Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
Through-Hole Packages								**TO-220AB**
IRFBE30	800	3.0	4.1	2.6	2.0	125	90613	H12
IRFBF30	900	3.7	3.6	2.3	1.0	125	90616	
IRFBG20	1000	11	1.4	0.86	2.3	54	90604	
IRFBG30	1000	5.0	3.1	2.0	1.0	125	90620	
P-Channel								
IRF9Z24N	-55	0.175	-12	-8.5	3.3	45	91484	H12
IRF9Z34N	-55	0.10	-17	-12	2.7	56	91485	
IRF5305	-55	0.06	-31	-22	1.4	110	91385	
IRF4905	-55	0.02	-64	-45	1.0	150	91280	
IRF9530N	-100	0.20	-13	-9.2	2.0	75	91482	
IRF9540N	-100	0.117	-19	-13	1.6	94	91437	
IRF5210	-100	0.06	-35	-25	1.0	150	91434	
IRF6215	-150	0.29	-11	-7.8	1.8	83	91479	

*** Not rated*


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I-Pak


TO-262

TO-220AB


TO-220 FullPak


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Through-Hole Packages

TO-220AB

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
N-Channel		*Logic Level*						
IRL3302	20	0.020	39	25	2.2	57	91696	H12
IRL3202	20	0.016	48	30	1.8	69	91695	
IRL3102	20	0.013	61	39	1.4	89	91694	
IRL3402	20	0.01	85	54	1.1	110	91697	
IRL3502	20	0.007	110	67	0.89	140	91698	
IRL2703	30	0.04	24	17	3.3	45	91359	
IRL3303	30	0.026	34	24	2.7	56	91322	
IRL3103	30	0.014	56	40	1.8	83	91337	
IRL2203N	30	0.007	100	71	1.2	130	91366	
IRL3803	30	0.006	120	83	1.0	150	91301	
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	
IRL3705N	55	0.01	77	54	1.2	130	91370	
IRL2505	55	0.008	104	74	0.75	200	91325	
IRL520N	100	0.18	10	7.1	3.2	47	91494	
IRL530N	100	0.10	15	11	2.4	63	91348	
IRL540N	100	0.044	30	21	1.6	94	91495	
IRL2910	100	0.026	48	34	1.0	150	91375	

*** Not rated*

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TO-262

TO-220AB

TO-220 FullPak

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Through-Hole Packages

TO-220 FullPak (Fully Isolated)

N-Channel *Low Charge*

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Qg Total Gate Charge (nC)	Fax on Demand Number	Case Outline Key
IRFI740GLC	400	0.55	6.0	**	3.1	40	39	91209	H13
IRFI840GLC	500	0.85	4.8	**	3.1	40	39	91208	
IRFIBC40GLC	600	1.2	4.0	**	3.1	40	39	91211	

** *Not rated*


HEXDIP


I-Pak


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TO-220AB


TO-220 FullPak


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Through-Hole Packages

TO-220 FullPak (Fully Isolated)

N-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
IRFIZ24N	55	0.07	13	9.2	5.8	26	91501	H14
IRFIZ34N	55	0.04	19	13	4.8	31	91489	
IRFIZ44N	55	0.024	28	20	0.024	38	91403	
IRFIZ46N	55	0.02	31	22	3.8	40	91306	
IRFIZ48N	55	0.016	36	25	3.6	42	91407	
IRFI1010N	55	0.012	44	31	3.2	47	91373	
IRFI3205	55	0.008	56	40	3.1	48	91374	
IRFIZ24E	60	0.071	14	9.6	5.2	29	91673	
IRFIZ34E	60	0.042	21	15	4.1	37	91674	
IRFI510G	100	0.54	4.5	3.2	5.5	27	90829	
IRFI520N	100	0.20	7.2	5.1	5.5	27	91362	
IRFI530N	100	0.11	11	7.8	4.5	33	91353	
IRFI540N	100	0.052	18	13	3.6	42	91361	
IRFI1310N	100	0.036	22	16	3.3	45	91611	
IRFI3710	100	0.025	28	20	3.1	48	91387	
IRFI620G	200	0.8	4.1	2.6	4.1	30	90832	
IRFI630G	200	0.4	5.9	3.7	3.6	32	90652	
IRFI640G	200	0.18	9.8	6.2	3.1	40	90649	
IRFI614G	250	2.0	2.1	1.3	5.5	23	90831	
IRFI624G	250	1.1	3.4	2.2	4.1	30	90833	
IRFI634G	250	0.45	5.6	3.5	3.6	32	90738	
IRFI644G	250	0.28	7.9	5	3.1	40	90739	

*** Not rated*


HEXDIP


I-Pak


TO-262

TO-220AB


TO-220 FullPak


TO-247

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input control switch output distribution

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Through-Hole Packages

TO-220 FullPak (Fully Isolated)

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
IRFI720G	400	1.8	2.6	1.7	4.1	30	90834	H14
IRFI730G	400	1.0	3.7	2.3	3.6	32	90650	
IRFI740G	400	0.55	5.4	3.4	3.1	40	90651	
IRFI734G	450	1.2	3.4	2.1	3.6	35	91001	
IRFI744G	450	0.63	4.9	3.1	3.1	40	91002	
IRFI820G	500	3.0	2.1	1.3	4.1	30	90641	
IRFI830G	500	1.5	3.1	2	3.6	32	90646	
IRFI840G	500	0.85	4.6	2.9	3.1	40	90642	
IRFIBC20G	600	4.4	1.7	1.1	4.1	30	90850	
IRFIBC30G	600	2.2	2.5	1.6	3.6	35	90851	
IRFIBC40G	600	1.2	3.5	2.2	3.1	40	90852	
IRFIBE20G	800	6.5	1.4	.86	4.1	30	90853	
IRFIBE30G	800	3.0	2.1	1.4	3.6	35	90854	
IRFIBF20G	900	8.0	1.2	.79	4.1	30	90855	
IRFIBF30G	900	3.7	1.9	1.2	3.6	35	90856	
P-Channel								
IRFI9Z24N	-55	0.175	-9.5	-6.7	5.2	29	91529	H14
IRFI9Z34N	-55	0.10	-14	-10	4.1	37	91530	
IRFI4905	-55	0.02	-41	-29	2.4	63	91526	
IRFI9540G	-100	0.117	-13	-9.2	3.6	42	90837	
IRFI9540N	-100	0.117	-13	-9.2	3.6	42	91487	
IRFI5210	-100	0.06	-20	-14	3.1	48	91404	
IRFI9634G	-250	1.0	-4.1	-2.6	3.6	35	91488	

*** Not rated*


HEXDIP


I-Pak

TO-220AB


TO-220 FullPak


TO-247

Illustrations not to scale

input control switch output distribution

To view a datasheet, click on the part number

HEXFET® Power MOSFETs

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Through-Hole Packages

TO-220 FullPak (Fully Isolated)

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
N-Channel		*Logic Level*						
IRLI2203N	30	0.007	61	43	3.2	47	91378	H14
IRLI3803	30	0.006	67	47	3.1	48	91320	
IRLIZ24N	55	0.06	14	9.9	5.8	26	91344	
IRLIZ34N	55	0.035	20	14	4.8	31	91329	
IRLIZ44N	55	0.022	28	20	4.0	38	91498	
IRLI3705N	55	0.01	47	33	3.2	47	91369	
IRLI2505	55	0.008	58	41	2.4	63	91327	
IRLI520N	100	0.18	7.7	5.4	5.5	27	91496	
IRLI530N	100	0.10	11	7.8	4.5	33	91350	
IRLI540N	100	0.044	20	14	3.6	42	91497	
IRLI2910	100	0.026	27	19	3.1	48	91384	
P-Channel		*Logic Level*						
IRFI9520G	-100	0.6	-5.2	-3.6	4.1	37	90835	H14
IRFI9530G	-100	0.03	-7.7	-5.4	3.6	38	90836	
IRFI9620G	-200	1.5	-3.0	-1.9	4.1	30	90874	
IRFI9630G	-200	0.8	-4.3	-2.7	3.6	40	90838	
IRFI9640G	-200	0.5	-6.1	-3.9	3.1	40	90839	

*** Not rated*

HEXDIP

I-Pak

TO-262

TO-220AB

TO-220 FullPak

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input control switch output distribution

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Through-Hole Packages

TO-247

N-Channel *Low Charge*

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Qg Total Gate Charge (nC)	Fax on Demand Number	Case Outline Key
IRFP350LC	400	0.30	18	**	0.65	190	70	91229	H16
IRFP360LC	400	0.20	23	**	0.45	280	98	91230	
IRFP450LC	500	0.40	16	**	0.65	190	70	91231	
IRFP460LC	500	0.27	20	**	0.45	280	98	91232	
IRFPC50LC	600	0.60	13	**	0.65	190	70	91233	
IRFPC60LC	600	0.40	16	**	0.45	280	98	91234	

*** Not rated*

HEXDIP

I-Pak

TO-262

TO-220AB

TO-220 FullPak

TO-247

Illustrations not to scale

input control switch output distribution

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HEXFET® Power MOSFETs

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Through-Hole Packages

TO-247

N-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
IRFP044N	55	0.02	49	35	1.5	100	91410	H17
IRFP048N	55	0.016	62	44	1.2	130	91409	
IRFP054N	55	0.012	72	51	1.2	130	91382	
IRFP064N	55	0.008	98	69	1.0	150	91383	
IRFP140N	100	0.052	27	19	1.6	94	91343	
IRFP150N	100	0.036	39	28	1.1	140	91503	
IRFP3710	100	0.028	51	36	.83	180	91490	
IRFP240	200	0.18	20	12	0.83	150	90444	
IRFP250	200	0.085	30	19	0.65	190	90443	
IRFP260	200	0.055	46	29	0.45	280	90755	
IRFP244	250	0.28	15	9.7	0.83	150	90588	
IRFP254	250	0.14	23	15	0.65	190	90540	
IRFP264	250	0.075	38	24	0.45	280	90756	
IRFP340	400	0.55	11	6.9	0.83	150	90456	
IRFP350	400	0.30	16	10	0.65	190	90445	
IRFP360	400	0.20	23	14	0.45	280	90586	
IRFP344	450	0.63	9.5	6.0	0.83	150	90998	
IRFP354	450	0.35	14	9.1	0.65	190	90995	
IRFP440	500	0.85	8.8	5.6	0.83	150	90457	
IRFP448	500	0.60	11	6.6	0.70	180	90595	
IRFP450	500	0.40	14	8.7	0.65	190	90458	
IRFP460	500	0.27	20	13	0.45	280	90512	

*** Not rated*


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TO-220 FullPak


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Illustrations not to scale

input control switch output distribution

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Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
Through-Hole Packages								**TO-247**
IRFPC30	600	2.2	4.3	2.7	1.2	100	90596	H17
IRFPC40	600	1.2	6.8	4.3	0.83	150	90511	
IRFPC48	600	0.82	8.9	5.6	0.73	170	90996	
IRFPC50	600	0.60	11	7.0	0.65	180	90656	
IRFPC60	600	0.40	16	10	0.45	280	90870	
IRFPE30	800	3.0	4.1	2.6	1.0	125	90612	
IRFPE40	800	2.0	5.4	3.4	0.83	150	90578	
IRFPE50	800	1.2	7.8	4.9	0.65	190	90573	
IRFPF30	900	3.7	3.6	2.3	1.0	125	90618	
IRFPF40	900	2.5	4.7	2.9	0.83	150	90580	
IRFPF50	900	1.6	6.7	4.2	0.65	190	90542	
IRFPG30	1000	5.0	3.1	2.0	1.0	125	90621	
IRFPG40	1000	3.5	4.3	2.7	0.83	150	90576	
IRFPG50	1000	2.0	6.1	3.9	0.65	190	90543	
P-Channel								
IRFP9140	-100	0.20	-21	-15	0.83	180	90480	H17
IRFP9140N	-100	0.117	-21	-15	1.3	120	91492	
IRFP9240	-200	0.50	-12	-7.5	0.83	150	90481	

*** Not rated*

HEXDIP

I-Pak

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TO-220 FullPak

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input control switch output distribution

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Through-Hole Packages

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N-Channel

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
IRFZ24NL	55	0.07	17	12	3.3	45	91355	H19
IRFZ34NL	55	0.040	29	20	2.2	68	91311	
IRFZ44NL	55	0.022	49	35	1.4	110	91315	
IRFZ46NL	55	0.020	53	37	1.3	120	91305	
IRFZ48NL	55	0.016	64	45	1.1	140	91408	
IRF1010NL	55	0.011	84	60	0.90	170	91372	
IRF3205L	55	0.008	110	80	0.75	200	91304	
IRF1010EL	60	0.012	83	59	0.90	170	91720	
IRF2807L	75	0.013	71	50	1.0	150	91518	
IRF3315L	150	0.082	21	15	1.6	94	91617	
IRFBC20L	600	4.4	2.2	1.4	2.5	50	9.1014	
IRFBC30L	600	2.2	3.6	2.3	1.7	74	91015	
IRFBC40L	600	1.2	6.2	3.9	1.0	130	91016	
IRFBF20L	900	8.0	1.7	1.1	2.3	54	91665	

P-Channel

IRF5305L	-55	0.06	-31	-22	1.4	110	91386	H19
IRF4905L	-55	0.02	-74	-52	0.75	200	91478	
IRF9520NL	-100	0.48	-6.7	-4.8	3.2	47	91522	
IRF9530NL	-100	0.20	-14	-9.9	2.0	75	91523	

*** Not rated*


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N-Channel *Logic Level*

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100° (A)	R_Θ Max. Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax on Demand Number	Case Outline Key
IRL3303L	30	0.026	38	27	2.2	68	91323	H19
IRL3103L	30	0.014	64	45	1.4	110	91338	
IRL2203NL	30	0.007	116	82	0.90	170	91367	
IRL3803L	30	0.006	140	98	0.75	200	91319	
IRLZ24NL	55	0.06	18	13	3.3	45	91358	
IRLZ34NL	55	0.035	30	21	2.2	68	91308	
IRLZ44NL	55	0.022	47	33	1.4	110	91347	
IRL3705NL	55	0.01	89	63	0.90	170	91502	
IRL2505L	55	0.008	104	74	0.75	200	91362	

** *Not rated*

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TO-220AB

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