Power MOSFET Selection Guide September 2001



FAIRCHILD
SEMICONDUCTOR®

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SO-8



Part	V _{DS}	Rn	e(ON) Max	. (mΩ) @ V ₍	ne =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	- Comigaration
SO-8 N-Channel		101	7.01	2.01	1.01	VGS OV	(~)	(**)	
RF1K49211	12		20			35	7	2	
RF1K49090	12		50			12	3.5	2	Dual
FDS6574A	20		6	7	9	75	16	2.5	Duai
FDS6572A			6	7		57	16	2.5	
FDS6570A			7.5	10		47	15	2.5	
NDS8426A			13.5	16@2.7			10.5	2.5	
FDS6890A			18	22		23	7.5	2	Dual
NDS8425			25	30@2.7			7.4	2.5	
FDS9926A			30	43		7	6.5	2	Dual
FDS7760A	30	5.5	8			37	15	2.5	
FDS7064A		5.5	7.5			33			
FDS6688		6	7			40	16	2.5	
FDS6676		7	8			45	14.5	2.5	
FDS7764A			7.5				16	2.5	
FDS6670A		8	10			35	13	2.5	
FDS6672A		8	9.5			33	12.5	2.5	
SI4420DY		9	13			23	12.5	2.5	
FDS6670S		9	12.5			24	13.5	2.5	SyncFET
FDS6680A		9.5	13			23	12.5	2.5	
FDS6680		10	15			19	11.5	2.5	
ITF86130SK8T		7.8	10			31.5	14	2.5	
FDS6680S		11	17			17	11.5	2.5	SyncFET
FDS6694		11	13.5			13	12	2.5	
HUF76132SK8		11.5	16			24	11.5	2.5	
FDS6692		12	14.5			18	12	2.5	
FDS6690A		12.5	17			17	11	2.5	
HUF76131SK8		13	18			22	10	2.5	
FDS4410		13.5	20			13	10	2.5	
FDS6690		13.5	20			13	10	2.5	
SI4410DY		13.5	20			13	10	2.5	
HP4410DY		13.5					10	0	
FDS6982		15	20			18.5	8.6	2	Dual
FDS6690S		28	35			8.5	6.3	2	Dual
		16	25			17	10	2.5	SyncFET
FDS6982S		16	22			17.5	8.6	2	Dual
		28	35			8.5	6.3	2	SyncFET
FDS6614A		18	25			12	9.3	2.5	
FDS6990A		18	23			17	7.5	2	Dual
SI4416DY		18	28			13	9	2.5	
FDS6984S		19	28			11	8.5	2	Dual
		40	55			5	5.5	2	SyncFET
FDS6678A		20	24			13	7.5	2.5	
FDS6612A		22	30			9	8.4	2.5	
FDS9412		22	36			9	7.9	2.5	
FDS6990S		22	30			11	7.5	2	Dual SyncFET
ISL9N322ASK8T		22	6.1			8.6	8.3	2.5	
HUF76121SK8		23	31			14	8	2.5	
HUF76112SK8T		26	33			7.2	7.5	2.5	Du-1
FDS6912		28	42			7	6	2	Dual
FDS6912A		28	35			9	6	2	Dual
FDS8936A		28	40				6	2	Dual
NDS9410A		28	42			9	7.3	2.5	
SI4412DY		28	42				7	2.5	Duol
FDS6986S		29	38			6.5	6.5	2	Dual
FDS8926A		20	28 30	38		11	7.9 5.5	2	SyncFET Dual
SI9410DY		30	50	J0			7	2.5	Dual
HUF76113SK8		30	41			10	6.5	2.5	
RF1K49156		30	30			29	6.3	2.5	
RF1K49157		30	60			29	6.3	2	
HUF76113DK8		32	43			8.4	6	2.5	Dual
NDS8936		35	50			0.4	5.3	2.5	Dual
SI4936DY		37	55			5	5.8	2	Dual
HP4936DY		37	JJ			J J	5.8	0	Dual
FDS6630A		38	53			5	6.5	2.5	Dual
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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V _C	3S =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
SO-8 N-Channe	(continue	ed)				- 00			
FDS6930A	30	40	55			5	5.5	2	Dual
HUF76105DK8		50	78			5.3	5	2.5	Dual
HUF76105SK8		50	78			5.3	5.5	2.5	
RF1K49088			60			13	3.5	2	Dual
NDS9956A		80	110 140			0.4	3.7	2	Dual
FDS6961A FDS6961AZ		90	140			2.1	3.5 3.5	2	Dual Dual
FDS4672A	40	90	13			35	11	2.5	Duai
NDS9959	50	300	500			- 55	2	2	Dual
SSD2007A		300	500			9.5	2	2	
FDS5670	60	14	17@6			49	10	2.5	
FDS5680		20	25@6			30	8	2.5	
FDS5690		28	33@6			23	7	2.5	
HUF76407DK8T		90	105			9.4	3.8	2.5	Dual
SI9945DY		100	200				3.3	2	Dual
FDS9945		100	200			8	3.5	2	Dual
SSD2025		100				24	3.3	2	
NDS8433		7500					3.5	2.5	
NDS8434							3.5	2.5	
NDS8435 NDS9943							3.5 3.5	2.5	
NDS9943 NDS9953							3.5	2.5	
NDS9956							3.5	2.5	
FDS3570	80	19	22@6			54	9	2.5	
FDS3580	00	27	31@6			34	7.6	2.5	
HUF75531SK8		30	2162			37	6	2.5	
FDS3590		37	43@6			23	6.5	2.5	
FDS3890		44	50@6			29	4.7	2	Dual
FDS3512		70	80@6			13	4	2.5	
FDS3812		74	84@6			13	3.4	2	Dual
FDS3670	100	30	33@6			57	6.3	2.5	
HUF75631SK8		39				35	5.5	2.5	
FDS3680		43	48@6			38	5.2	2.5	
FDS3690		59	66@6			28	5	2.5	
FDS3612		120	130@6			14	3.4	2.5	
FDS3912		125	135@6			3.7	3 1.3	2	Dual
FDS3601 FDS2570	150	480 80	530@6 90@6			39	4	2.5	Dual
HUF75831SK8T	130	95	90@0			35	3	2.5	
FDS2670	200	130				27	3	2.5	
FQS4901	400	4200				5.8	0.45	2	Dual
FQS4903	500	6200				6.3	0.37		Dual
SO-8 P-Channel									
RF1K49093	-12		130			10	2.5	2	Dual
FDS4465	-20		8.5	10.5	14	86	13.5	2.5	
SI4467DY			8.5	2.5	1.8	86	13.5	2.5	
FDS6575			13	17		50	10	2.5	
FDS6576			14	20		43	11	2.5	
FDS6375			24	32		23	8 7 0	2.5	
NDS8434A SI9424DY			24 24	32 32		23	7.8 8	2.5	
FDS6875			30	40		23	6	2.5	Dual
FDS8433A			47	70		20	5	2.5	Dual
FDS8934A			55	72			4	2.3	Dual
NDS9405			60	115@2.7			3.5	2.5	
NDS9430		60	115				3.5	2.5	
NDS9430A		60	115				3.5	2.5	
FDS9933A			75	105		8	3.8	2	Dual
FDS9431A			130	180		6	3.5	2.5	
NDS9933A			140	200			2.8	2	Dual
SI9953DY		250	400				2.3	2	Dual
FDS6679	-30	9	13			71	13	2.5	
FDS6679Z		9	13			67	13	2.5	
FDS6675		14	20			30	11	2.5	
FDS4435A		17	25			21	9	2.5	

SO-8



Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
SO-8 P-Chann	el (continue	ed)					<u> </u>		
FDS4435	-30	20	35			17	8.8	2.5	
FDS6685		20	35			19	8.8	2.5	
SI4435DY		20	35			17	8.8	2.5	
SI4835DY		20	35			19	8.8	2.5	
NDS8435A		23	35				7.9	2.5	
FDS4935		23	35			15	7	2	Dual
FDS6609A		32	50			18	6	2.5	
FDS6975		32	45			14.5	6	2	Dual
SI4925DY		32	45			14.5	6	2	Dual
FDS9435A		45	75				5.3	2.5	
NDS9435A		50	90				5.3	2.5	
FDS4953		53	95			8	5	2	Dual
SI4953DY		53	95			8	4.9	2	Dual
NDS8947		65	100				4	2.5	
NDS9953A		130	200				2.9	2	Dual
NDS9400A		130	200				3.4	2.5	
FDS9400A		130	200			2.5	3.4	2.5	
FDS9953A		130	200			2.5	2.9	2	Dual
RF1K49223		150	360			8	2.5	2	Dual
FDS4675	-40	13	17			40	11	2.4	
NDS9407	-60	150	240				3	2.5	
NDS9948		250	500				2.3	2	Dual
SO-8 Complen	nentary N-P	Channel							
RF1K49092	12		130			12	3.5	2	Comp
FDS4501H	30	18	27			18.5	9.3	2.5	Comp
	-20	18	50	63		18.5	5.6	2.5	Comp
FDS8958A	30	28	40				7	2	Comp
	-30	52	80				5	2	Comp
FDS8928A	30		30	38			5.5	2	Comp
	-20		55	72			4	2	Comp
NDS8858H	30	35	50				6.3	2.5	Comp
	-30	65	100				4.8	2.5	Comp
SI4532DY	30	65	95				3.9	2	Comp
	-30	85	190				3.5	2	Comp
NDS9952A	30	80	110				3.7	2	Comp
	-30	130	200				2.9	2	Comp
FDS4559	60	55	75			12.5	4.5	2	Comp
	-60	105	135			15	3.5	2	Comp
FQS4900	60	550	650			1.6	1.3	2	Comp
	-300	15500	16000			3.6	0	2	Comp

SuperSOT-8



SuperSOT-8 N-C									
FDR6580	20		9	11		34	11.2	1.8	
FDR4410	20	13	20				9.3	1.8	
	-30	90	150				4	1.8	
NDH833N	20		20	25@2.7			7.1	1.8	
FDR8305N			22	28		16.2	4.5	0.8	Dual
FDR4420A	30	9	13			23	11	1.8	
FDR6674A		8.5	9.5			33	11.5	1.8	
FDR6678A		20	24			13	7.5	1.8	
SuperSOT-8 P-0	hannel								
FDR840P	-20		11	16		41	10	1.8	
FDR844P			11	14	20	53	10	1.8	
FDR838P			17	24		30	8	1.8	
FDR836P			30	40			6.1	1.8	
			170	250			1.6	1.8	
NDH834P			35	45@2.7			5.6	1.8	
FDR8308P]		50	70		13	3.2	0.8	Dual
NDH832P			60	80@2.7			4.2	1.8	
NDH8304P			70	95@2.7			2.7	0.8	Dual
FDR858P	-30	19	28			21	8	1.8	
FDR856P]	25	40				6.3	1.8	
FDR8508P		50	75			8	3	0.8	Dual

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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V ₍	gs =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TSSOP-8 N-Ch	annel								
FDW2501N	20		18	28			6	1	Dual
FDW2501NZ	1		18	25		14	6	1	Dual
FDW2507NZ	1		19	23		20	7.5	1.6	Dual
FDW2507N			19	23		20	7.5	1.6	Dual
FDW2503N	1		21	35		10.5	5.5	1	Dual
SI6926DQ	1		21	35		12	5.5	1	Dual
SI6966DQ	1		21	35		12	5.5	1	Dual
P-Channel									
FDW252P	-20		12	18			8.8	1.3	
FDW254P	1		12	15	21.5	60	9.2	1.3	
SI6467DQ	1		12	15	21.5	60	9.2	1.3	
SI6463DQ	1		12.5	18		41	8.8	1.3	
FDW2506P	1		22	32			5.3	1	Dual
FDW2502P	1		35	57			4.4	1	Dual
FDW2502PZ	1		35	57		14	4.4	1	Dual
FDW2504P	1		43	70		10	3.8	1	Dual
SI6963DQ	1		43	70		9.7	3.8	1	Dual
SI6923DQ			45	75		9.7	3.5	1.2	Dual
FDW262P			47	65	100	13	4.5	1.3	
FDW256P	-30	13.5	20			28	8	1.3	
Complementar	y N-P Chan	nel							
FDW2520C	20		18	28			7.2	3	Comp
	-20		33	57			5.3	3	Comp
FDW2521C	20		21	35		12	7	1	Comp
	-20		43	72		12	4	1	Comp

TSSOP-8



SuperSOT-6



SuperSOT-6 N-	Channel								
FDC637AN	20		24	32		10.5	6.2	1.6	
SI3446DV	1		24	32		10.5	6.2	1.6	
NDC631N]		60	75@2.7			4.1	1.6	
FDC6401N			70	95		3.3	3	0.96	Dual
FDC6305N			80	120		3.5	2.7	0.9	Dual
SI3442DV	1	6000	7500			10	4.1	1.6	
FDC6303N	25		450	600@2.7			0.68	0.9	Dual
FDC6301N			4000	5000@2.7			0.22	0.9	Dual
FDC655AN	30	27	35			9	6.3	1.6	
FDC645N		30	26			13	5.5	1.6	
FDC653N		35	55				5	1.6	
FDC633N			42	54			5.2	1.6	
NDC651N		60	90				3.2	1.6	
FDC6561AN	1	95	145			2.1	2.5	0.9	Dual
SI3948DV	1	95	145			2.3	2.5	0.96	Dual
NDC7002N	50	2000	4000				0.51	0.9	Dual
FDC5612	60	55	64@6			12.5	4.3	1.6	
FDC3512	80	77	88@6			13	3	1.6	
FDC3612	100	125	135@6			14	2.6	1.6	
FDC3601N		500	550@6			3.7	1	0.96	Dual
FDC2512	150	425	475@6			8	1.4	1.6	
FDC2612	200	725				8	1.1	1.6	
P-Channel									
FDC604P	-20		33	43	60	19	5.5	1.6	
SI3447DV			33	43	60	19	5.5	1.6	
SI3445DV			33	43	60	19	5.5	1.6	
FDC602P]		35	50		14	5.5	1.6	
FDC638P			45	65		13	4.5	1.6	
FDC640P			50	77		10	4.5	1.6	
FDC642P	1		65	100		7.2	4	1.6	
SI3443DV]		65	100		7.2	4	1.6	
FDC634P			80	110			3.5	1.6	
SI3441DV			80	110		7.2	3.5	1.6	
FDC6312P	1		115	155	225	4.4	2.3	0.96	Dual
FDC6310P			125	190		3.7	2.2	0.96	Dual
FDC636P			130	180			2.8	1.6	

SuperSOT-6



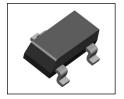
Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V ₍	gs =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
SuperSOT-6 P	-Channel (c	ontinued)				•			
FDC6306P	-20		170	250		3	1.9	0.9	Dual
FDC6308P			180	300		3	1.7	0.9	Dual
FDC6304P	-25		1100	1500@2.7			0.46	0.9	Dual
FDC6302P			10000	13000@2.7			0.12	0.9	Dual
FDC658P	-30	50	75			8	4	1.6	
SI3457DV		50	75			6	4	1.6	
FDC654P		75	125				3.6	1.6	
SI3455DV		75	125			3.6	3.6	1.6	
NDC652P		110	180			5.5	2.4	1.6	
FDC6506P		170	280			2.3	1.8	0.9	Dual
FDC5614P	-60	100	130			15	3	1.6	
Complementa	ry N-P Chan	nel							
FDC6420C	20		70	95					Comp
	-20		70	95					Comp
FDC6402N	20		70	95		3.3	30	0.96	Comp
	-20		125	190		3.7	2.2	0.96	Comp
FDC6327C	20		80	120		3.2	2.7	0.9	Comp
	-20		170	250		2.8	1.6	0.9	Comp
FDC6321C	25		450	600@2.7			0.68	0.9	Comp
	-25		1100	1500@2.7			0.46	0.9	Comp
FDC6320C	25		4000	5000@2.7			0.22	0.9	Comp
	-25		10000	13000@2.7			0.12	0.9	Comp
FDC6322C	25		4000	5000@2.7			0.22	0.9	Comp
	-25		1100	1500@2.7			0.46	0.9	Comp
FDC6333C	30	95	150			4.7	2.5	0.96	Comp
	-30	150	220			4.1	2	0.96	Comp
NDC7001C	50	2000	4000				0.51	0.9	Comp
	-50	5000	7500				0.34	0.9	Comp

SC70-6



SC70-6 N-Chan	inel								
FDG329N	20		90	115			1.5	0.42	
FDG327N			90	100	140	4.5	1.5	0.42	
FDG311N			115	150		3	1.9	0.48	
FDG313N	25		450	600@2.7			0.95	0.48	
FDG6303N			450	600@2.7			0.5	0.3	Dual
FDG6301N			4000	5000@2.7			0.22	0.3	Dual
FDG315N	30	120	160			2.1	2	0.48	
FDG361N	100	500	550@6			3.7	0.6	0.42	Dual
P-Channel									
FDG328P	-20		135	190			1.5	0.48	
FDG326P			140	180	250		1.5	0.75	
FDG312P			180	250		3.3	1.2	0.48	
FDG318P			200	350		3	1.5	0.48	
FDG6308P			400	550	800	1.8	0.6	0.3	Dual
FDG6306P			420	630		1.4	0.6	0.3	Dual
FDG314P	-25		1100	1500@2.7			0.65	0.48	
FDG6304P			1100	1500@2.7			0.41	0.3	Dual
FDG6302P			10000	13000@2.7			0.14	0.3	Dual
FDG316P	-30	190	300			3.5	1.6	0.48	
Complementar	y N-P Chan	nel							
FDG6321C	25		450	600@2.7			0.5	0.3	Comp
	-25		1100	1500@2.7			0.41	0.3	Comp
FDG6320C	25		4000	5000@2.7			0.22	0.3	Comp
	-25		10000	13000@2.7			0.14	0.3	Comp
FDG6322C	25		4000	5000@2.7			0.22	0.3	Comp
	-25		1100	1500@2.7			0.41	0.3	Comp

SuperSOT-3



6

SuperSOT-3 (SO	SuperSOT-3 (SOT-23) N-Channel										
FDN339AN	20		35	50		7	3	0.5			
FDN371N			50	60		7.6	2.5	0.5			
FDN335N			70	100		3.5	1.7	0.5			
FDN327N			70	80	120	4.5	2	0.5			
NDS335N			110	140@2.7			1.7	0.5			

Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V _G	is =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
SuperSOT-3 /	SOT-23 N-CI	hannel (co	ntinued)						
NDS331N	20	·	160	210@2.7			1.3	0.5	
FDV303N	25		450	600@2.7			0.68	0.35	
FDV301N			4000	5000@2.7			0.22	0.35	
FDN359AN	30	46	60			5	2.7	0.5	
FDN357N		60	90				1.9	0.5	
FDN337N			65	82			2.2	0.5	
NDS355AN		85	125				1.7	0.5	
NDS355N		85	125				1.6	0.5	
FDN361AN		100	150			2.1	1.8	0.5	
NDS351AN		160	250				1.2	0.5	
BSS138	50	3500	6000				0.22	0.36	
FDN5630	60	100	120@6			7	1.7	0.5	
NDS7002A		2000	3000				0.28	0.3	
MMBF170		5000					0.5	0.3	
2N7002		7500	7500				0.12	0.2	
NDS351N							3.5	0.5	
BSS123	100	6000	10000				0.17	0.36	
P-Channel									
FDN304P	-20		52	70	100	12	2.4	0.5	
FDN302P			55	80			2.4	0.5	
FDN340P			70	110		8	2	0.5	
FDN342P			80	130		6.3	2	0.5	
FDN308P			125	190		3.8	1.5	0.5	
FDN338P			130	180			1.6	0.5	
FDN336P			200	270		3.6	1.2	0.5	
NDS332P			300	410@2.7			1	0.5	
NDS336P							3.5	0.5	
NDS352P							3.5	0.5	
NDS356P							3.5	0.5	
FDV304P	-25		1100	1500@2.7			0.46	0.35	
FDV302P			10000	13000@2.7			0.12	0.35	
FDN360P	-30	80	125			5	2	0.5	
FDN358P		125	200				1.5	0.5	
NDS356AP		200	300				1.1	0.5	
NDS352AP		300	500				0.9	0.5	
BSS84	-50		10000				0.13	0.36	
FDN5618P	-60	170	230			8.6	1.2	0.5	
NDS0605		5000	7500				0.18	0.36	
NDS0610	┑	10000	20000				0.12	0.36	

SuperSOT-3



TO-92



SOT-223



SOT-223 N-Channel 11.5 3 NDT455N 30 15 20 NDT453N 28 42 8 HUF76113T3ST 31 40 9.5 4.7 1.1 FDT459N 55 6.5 35 3 45 FDT439N 58 6.3 3 NDT451N 50 80 5.5 3 FDT457N 60 90 5 3 70 10.7 3 HUF75309T3ST 55 1.1 HUF75307T3ST 90 8.3 2.6 1.1 FQT13N06 60 140 5.8 2.8 2.1

0.4

0.5

0.2

0.2

0.22

0.35

0.27

0.17

6

4

0.625

0.83

0.4

0.4

0.63

1.5

1.5

0.63

3000

5300

10000

TO-92 N-Channel

60

100

500

-50

2000

5000

5000

5000

7500

6000

5300

9000

10000

BS270

BS170

2N7000

2N7008

BSS100

FQNL2N50B

FQNL1N50B

P-Channel BSS110

2N7000M

SOT-223



Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	gs =	Q _g (nC) @ V _{GS} = 5V	ID	P_{D}	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
SOT-223 N-Cha	nnel (conti	nued)							
NDT014L	60	160	200				2.8	3	
FDT3612	100	120	130@6			14	3.7	3	
IRFM120A		200				16	2.3	2.4	
IRFM110A		400				8.5	1.5	2	
IRLM110A			440			5.5	1.5	2.2	
IRLM120A			220			10.2	2.3	2.7	
IRFM220A	200	800				12	1.1	2.4	
IRFM210A		1500				7	0.77	2	
IRLM210A			1500			6.1	0.77	1.8	
IRFM224A	250	1100				14	0.92	2.5	
IRFM214A		2000				8.5	0.64	2.1	
P-Channel									
FDT434P	-20		50	70		14	5.5	3	
NDT456P	-30	30	45				7.5	3	
NDT454P		50	90				5.9	3	
NDT452AP		65	100				5	3	
FDT458P		130	200			2.5	3.4	3	
RFT2P03L		150	360			8	2.1	1.1	
NDT452P		180	320				3	3	
NDT2955	-60	300	500				2.5	3	
SFM9014		500				9	1.8	2.8	
SFM9110	-100	1200				9	1	2.5	
SFM9210	-200	3000				9	0.5	1.6	
SFM9214	-250	4000				9	0.45	1.6	

BGA (Bottomless)



BGA (Bottomles	s) N-Chan	nel						
FDZ201N	20		18	30		9	2.7	
FDZ2551N			18	30		9	3	Dual
FDZ5047N	30	3.5	5		50	22	3.3	
FDZ7064N		5.7	7.5		33			
P-Channel								
FDZ206P	-20		8.5	13.5				
FDZ202P			45	75	9	5.5	2	
FDZ2552P			45	75		6	3	Dual
FDZ204P			45	75	9	4.5	1.8	

SO-16



SO-16 Complem	entary N-F	Channel					
NDM3000	30	90	130		3	2.5	Motor
	-30	160	250		3	2.5	Motor
NDM3001	30	115	160		2.9	2.5	Motor
	-30	240	360		2.9	2.5	Motor

DPAK (TO-252)



DPAK (TO-252) N	Channal							
· · · · · ·	20	22	30		7.0	20	50	
HUF76013D3S	20				7.8	+		
HUF76009D3S		27	39		5.7	20	41	
FDD6530A			32	47	6.5	21	33	
ISL9N306AD3ST	30	6	9.5		30	50	125	
ISL9N2357D3ST		7			85	50	100	
ISL9N307AD3ST		7			28	50	100	
FDD6676		7.5	8.5		45	78	83	
FDD6670A		8	10		35	66	70	
FDD6672A		8	9.5		33	65	70	
ISL9N308AD3ST		8			24	50	100	
FDD6644		8.5	10.5		25	67	68	
FDD6670S		9.4	13		17	64	70	SyncFET
FDD6680A		9.5	13		23	56	60	
FDD6680		10	15		19	55	60	
ISL9N310AD3ST		10			17	35	70	
FDD6680S		11	17		17	55	60	SyncFET
FDD6692		12	14.5		18	54	57	
ISL9N312AD3ST		12			13	50	75	
FDD6690A		12.5	16		17	46	50	

Part	V _{DS}	R _D	S(ON) Max.	. (mΩ) @ V ₍	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
DPAK (TO-252)		l (continue	l			G3 ·	, ,	, ,	
ISL9N316AD3ST		15.5				13	48	65	
FDD6030BL		16	22			22	42	50	
HUF76129D3S		16	23			22	20	105	
FDD6690S		16.7	24.5			17	40	50	SyncFET
ISL9N318AD3ST		18				8.6	30	45	
FQD60N03L		19	24			34	40.3	56	
HPLR3103		19					20	0	
FDD6612A		20	28			9	30 45	36 20	
ISL9N322AD3ST FDD603AL	1	23	37			8.6 9	33	39	
HUF76121D3S		23	33			13	20	75	
FQD45N03L		25	31			20	30	45	
ISL9N327AD3S		27	40			8.7	20	50	
FDD6630A		35	50			5	21	28	
HUF76107D3S	•	52	85			4.7	20	35	
HUF75329D3S	55	26				32	20	128	
HUF75321D3S		36				21	20	93	
HUF75309D3S		70				11	19	55	
HUF75307D3S		90				9	15	45	
FDD5670	60	15	18@6			49	48	70	
FDD5680		21	24@6			33	38	60	
HUF76429D3S		23	27			38	20	110	
FDD5690		27	32@6			23	30	50	
HUF76423D3S		32	37			28	20	85	
HUF76419D3S		37	43			23	20	75	
FQD30N06L]	39	47			15	24	44	
FQD30N06		45				19	22.7	44	
HUF76413D3S		49	56			17	20	60	
FDD5612	ļ	55 60	64@6			7.5 9.5	18	42 38	<u> </u>
FQD20N06LE FQD20N06L	 	60	75 75			9.5	17.2 17.2	38	<u> </u>
FQD20N06L	-	63	13	-		9.5	16.8	38	
HUF76409D3S	1	63	71			12	18	49	
HUF76407D3S	1	92	107			9.4	12	38	
FQD13N06L	1	110	140			4.8	11	28	
FQD13N06		140				7.5	10	28	
RFD3055SM		150				10	12	53	
FDD3570	80	19	22@6			54	10	69	
FDD3580]	29	33@6			35	7.7	42	
FQD24N08]	60				19	19.6	50	
FQD17N08L]	100	115			8.8	12.9	40	
FQD17N08	ļ	115				12	12.9	40	
FQD9N08L		210	230			4.7	7.4	25	
FQD9N08		210				5.9	7.4	25	
FDD3670	100	32	35@6			57	34	83	
FDD3680		46	51@6			38	7	60	
HUF76629D3S		52	54			38	20	110	
FDD3690	ļ	64	71@6			28	22	60	
HUF76619D3S		85	87			24	18	75 64	
HUF75617D3S FQD19N10L	-	90 100	110			18 14	16 15.6	64 50	
FQD19N10L FQD19N10	-	100	110			19	15.6	50	
IRFR130A	1	110				27	13.6	41	
HUF76609D3S	1	160	165			13	10	49	
FQD13N10L	1	180	200			8.7	10	40	
FQD13N10	100	180				12	10	40	
IRFR120A		200				16	8.4	32	
IRFR120*		270				9.7	8.4	50	
IRFR120T*	1	270				9.7	8.4	50	
FQD7N10L		350	380			4.6	5.8	25	
FQD7N10		350				5.8	5.8	25	
IRFR110A		400				8.5	4.7	20	
IRFR110*]	540				5.2	4.7	30	
IRFR110T*]	540				5.2	4.7	30	
IRLR110A			440			5.5	4.7	22	

DPAK (TO-252)





^{*}These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.

DPAK (TO-252)



Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
DPAK (TO-252)		(continue	d)			66	` ′	` '	
IRLR120A	100		220			10.2	8.4	35	
IRLR130A			120			16.9	13	46	
FDD2570	150	80	90@6			39	4.7	70	
HUF75829D3S		110				31	18	110	
HUF75823D3S		150				23	14	85	
FQD16N15		160				23	11.8	55	
FQD14N15 FQD9N15		210 400				18 10	10 7	50 45	
FDD2512		420	470@6			8	6.7	42	
FQD6N15		600	470@0			6.5	5.2	37	
FQD5N15		800				5.4	4.3	30	
FDD2670	200	130				27	3.6	70	
HUF75925D3ST		275				32	11	100	
FQD12N20L		280	320			16	9	55	
FQD12N20		280				18	9	55	
FQD10N20L		360	380			13	7.6	51	
FQD10N20		360				13.5	7.6	51	
FQD630		400				19	7	46	
IRFR230B		400				22	7.5	50	
IRFR230A FQD7N20		400				22	7.5	50 45	
FQD7N20 FDD2612		690 720				8	5.3 4.9	45	
FQD7N20L		750	780			6.8	5.5	45	
IRFR220B		800	700			12	4.6	40	
IRFR220A		800				12	4.6	40	
IRFR220*		800				12	4.6	50	
IRFR220T*		800				12	4.6	50	
FQD5N20L		1200	1250			4.8	3.8	37	
FQD5N20		1200				6	3.8	37	
FQD4N20L		1350	1400			4	3.2	30	
FQD4N20		1400				5	3	30	
IRFR210B		1500				7.2	2.7	26	
IRFR210A		1500	4500			7	2.7	26	
IRLR210A IRLR220A			1500 800			6.1 10.3	2.7 4.6	21 33	
IRLR230A			400			18.6	7.5	48	
FQD9N25	250	420	700			15.5	7.4	55	
IRFR234B	200	450				29	6.6	49	
FQD8N25		550				12	6.2	50	
FQD6N25		1000				6.6	4.4	45	
IRFR224B		1100				13.5	3.8	42	
IRFR224A		1100				14	3.8	42	
FQD4N25		1750				4.3	3	37	
IRFR214B		2000				8.1	2.2	25	
IRFR214A		2000				8.5	2.2	25	
FQD3N25	200	2200			-	4	2.4	30	
FQD7N30 FQD5N30	300	700 900				9.8	5.5 4.4	50 45	
FQD3N30 FQD3N30		2200				5.5	2.4	30	
FQD2N30		3700				3.7	1.7	25	
IRFR330B	400	1000				25	4.5	48	
FQD6N40		1150				13	4.2	50	
FQD5N40		1600				10	3.4	45	
IRFR320B		1750				14	3.1	41	
IRFR320A		1800				19	3.1	41	
IRFR310B	400	3400				7.7	1.7	26	
FQD3N40		3400				6	2	30	
IRFR310A		3600			-	10	1.7	26	
FQD2N40	F00	5800				4	1.4	25	
IRFR430B	500	1500				25	3.5	48	
FQD5N50 IRFR420B		1800 2600				13 14	3.5 2.3	50 41	
FQD4N50		2700				10	2.5	45	
IRFR420A		3000				19	2.3	41	
IRFR420RT4941		3000				13	2.5	50	
		1 5500		<u> </u>	L				1

^{*}These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.



Number (V) 10V DPAK (TO-252) N-Channel (contined for popular for popu	4.5V	2.5V 1.8	6 8.3 4 22 10 9 12.5 15 5 9 7.5 12 12 13 15 21	1.6 1.6 1.3 1.1 2.8 2.4 2 1.8 1.8 1 0.9 0.9 1.8 1.7	30 26 25 49 50 45 44 44 30 28 28 50 50	
FQD2N50 500 5300 SSR1N50B 5500 5500 FQD1N50 9000 5500 SSR4N60B 600 2500 FQD3N60 4700 3600 FQD2N60 4700 58R2N60B 5000 SSR2N60A 5000 11500 58R1N60B 12000 SSR1N60B 12000 58R1N60A 12000 7200 FQD2N80 800 6300 6300 7200 P-Channel RFD10P03LSM -30 7200 7200 P-Channel RFD10P03LSM -30 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 7200 <th>220</th> <th></th> <th>6 8.3 4 22 10 9 12.5 15 5 5 5.9 7.5 12 12</th> <th>1.3 1.1 2.8 2.4 2 1.8 1.8 1.9 0.9 0.9 1.8 1.7</th> <th>26 25 49 50 45 44 44 30 28 28 50 50</th> <th></th>	220		6 8.3 4 22 10 9 12.5 15 5 5 5.9 7.5 12 12	1.3 1.1 2.8 2.4 2 1.8 1.8 1.9 0.9 0.9 1.8 1.7	26 25 49 50 45 44 44 30 28 28 50 50	
FQD2N50 500 5300 SSR1N50B 5500 5500 FQD1N50 9000 5500 SSR4N60B 600 2500 FQD3N60 4700 3600 FQD2N60 4700 58R2N60A FQD1N60 11500 58R2N60A FQD1N60 12000 58R1N60A 12000 SSR1N60A 12000 7200 FQD2N80 800 6300 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 135 SFR9034 140 140 FQD11P06 185 58R9024 280 FDD5202P 300 58R9904 500 FQD7P06 450 58R9904 500 FQD7P06 450 58R910 58R910 500 FQD8P10 500 600 18RF89120 600	220		8.3 4 22 10 9 12.5 15 5 5.9 7.5 12 13	1.3 1.1 2.8 2.4 2 1.8 1.8 1.9 0.9 0.9 1.8 1.7	26 25 49 50 45 44 44 30 28 28 50 50	
FQD1N50 9000 SSR4N60B 600 2500 FQD3N60 3600 3600 FQD2N60 4700 3600 SSR2N60B 5000 5000 SSR2N60A 5000 11500 SSR1N60B 12000 12000 SSR1N60A 12000 6300 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 135 SFR9034 140 140 FQD17P06 185 300 FR9024 280 185 FR9024 280 185 FR9024 280 185 FR9024 280 185 FR91955 300 450 FRP3910 -100 290 FR9130 300 190 FQD8P10 530 190 FR9120 600			4 22 10 9 12.5 15 5 5.9 7.5 12 12	1.1 2.8 2.4 2 1.8 1.8 1 0.9 0.9 1.8 1.7	25 49 50 45 44 44 30 28 28 50 50	
SSR4N60B 600 2500 FQD3N60 3600 FQD2N60 4700 SSR2N60B 5000 SSR2N60A 5000 FQD1N60 11500 SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR9904 280 FQD7P06 450 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120* 600 FQD5P10 1050 SFR9110 1200 FQD5P20 1400 SFR9220 1500			22 10 9 12.5 15 5 5.9 7.5 12 12	2.8 2.4 2 1.8 1.8 1 0.9 0.9 1.8 1.7	49 50 45 44 44 30 28 28 50	
FQD3N60 3600 FQD2N60 4700 SSR2N60B 5000 SSR2N60A 5000 FQD1N60 11500 SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 PChannel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR9955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120* 600 FQD5P10 1050 SFR9110 1200 FQD5P20 -200 690 FQD5P20 1400			10 9 12.5 15 5 5.9 7.5 12 12 13	2.4 2 1.8 1.8 1 0.9 0.9 1.8 1.7	50 45 44 44 30 28 28 50 50	
FQD3N60 3600 FQD2N60 4700 SSR2N60B 5000 SSR2N60A 5000 FQD1N60 11500 SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR920 1400 SFR9220 1500			9 12.5 15 5 5.9 7.5 12 12	2 1.8 1.8 1 0.9 0.9 1.8 1.7	45 44 44 30 28 28 50 50	
SSR2N60B 5000 SSR2N60A 5000 FQD1N60 11500 SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD7P06 300 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120* 600 FQD5P10 1050 SFR9110 1200 FQD5P20 1400 SFR9220 1500			12.5 15 5 5.9 7.5 12 12	1.8 1.8 1 0.9 0.9 1.8 1.7	44 44 30 28 28 50 50	
SSR2N60B 5000 SSR2N60A 5000 FQD1N60 11500 SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR9904 450 FQD7P06 450 450 SFR9914 500 FQD7P06 450 SFR9130 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120* 600 IRFR9120* 600 FQD5P10 1050 FQD5P20 540 FRP9220 -200 690 FQD5P20 1400 500			12.5 15 5 5.9 7.5 12 12	1.8 1.8 1 0.9 0.9 1.8 1.7	44 44 30 28 28 50 50	
SSR2N60A 5000 FQD1N60 11500 SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR9955 300 FQD7P06 450 450 SFR9914 500 450 FQD12P10 -100 290 SFR9130 300 50 FQD8P10 530 50 IRFR9120* 600 1050 IRFR9120* 600 1050 FQD5P10 1050 50 FQD5P20 -200 690 FQD5P20 1400 50			15 5 5.9 7.5 12 12 13	1.8 1 0.9 0.9 1.8 1.7	30 28 28 50 50	
FQD1N60 11500 SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 -30 FDD5614P -60 100 FQD17P06 135 -35 SFR9034 140 FQD11P06 SFR9024 280 -80 FDD5202P 300 -80 SFR2955 300 -90 FQD7P06 450 -450 SFR9014 500 -100 FQD12P10 -100 290 SFR9130 300 -90 FQD8P10 530 -50 IRFR9120* 600 -600 IRFR9120* 600 -105 FQD5P10 1050 -200 FQD5P20 -200 690 FQD5P20 1400 -500			5 5.9 7.5 12 12 13	1 0.9 0.9 1.8 1.7	28 28 50 50	
SSR1N60B 12000 SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 -200 690 FQD5P20 -200 690 FQD5P20 1400 500			5.9 7.5 12 12 13	0.9 1.8 1.7	28 50 50	
SSR1N60A 12000 FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 -30 FDD5614P -60 100 FQD17P06 135 58 SFR9034 140 140 FQD11P06 185 300 SFR9024 280 280 FDD5202P 300 450 SFR2955 300 450 SFR9014 500 500 FQD7P06 450 300 SFR9130 300 500 FQD8910 530 300 FQD8910 530 600 IRFR9120* 600 1050 IRFR9120* 600 1050 FQD5P10 1050 57 SFR9110 1200 690 FQD5P20 1400 500 FR9220 1500			7.5 12 12 12	0.9 1.8 1.7	28 50 50	
FQD2N80 800 6300 FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 FQD5P10 1050 SFR9110 1200 FQD5P20 -200 690 FQD5P20 1400 SFR9220 1500			12 12 13 15	1.8 1.7	50 50	
FQD2N90 900 7200 P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD5P20 -200 690 FQD5P20 1400 SFR9220 1500			12 13 15	1.7	50	
P-Channel RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD5P20 -200 690 FQD5P20 1400 SFR9220 1500			13 15	10		
RFD10P03LSM -30 FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120* 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			15	_	65	
FDD5614P -60 100 FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120* 600 IRFR9120T* 600 SFR9110 1200 FQD5P20 -200 690 FQD5P20 1400 SFR9220 1500			15	_		
FQD17P06 135 SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120* 600 IRFR9120T* 600 SFR9110 1200 FQD5P20 -200 690 FQD5P20 1400 SFR9220 1500					42	
SFR9034 140 FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120* 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			1 Z1	12	44	
FQD11P06 185 SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			30	14	49	
SFR9024 280 FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500	1		13	9.4	38	
FDD5202P 300 SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 530 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			15	7.8	32	
SFR2955 300 FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500	500			8	39	
FQD7P06 450 SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			15	7.6	32	
SFR9014 500 FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			6.3	5.4	28	
FQD12P10 -100 290 SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			9	5.3	24	
SFR9130 300 FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			21	9.4	50	
FQD8P10 530 SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			30	9.8	57	
SFR9120 600 IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			12	6.6	44	
IRFR9120* 600 IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			16	4.9	32	
IRFR9120T* 600 FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			12	5.6	42	
FQD5P10 1050 SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			12	5.6	42	
SFR9110 1200 FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			6.3	3.6	25	
FQD7P20 -200 690 FQD5P20 1400 SFR9220 1500			9	2.8	20	
FQD5P20 1400 SFR9220 1500			19	5.7	55	
SFR9220 1500			10	3.7	45	
			15	3.1	30	
IRFR9220T* 1500			20	3.6	42	
FQD3P20 2700			6	2.4	37	
SFR9210 3000			9	1.6	19	
FQD6P25 -250 1100			21	4.7	55	
FQD4P25 2100			10	3.1	45	
SFR9224 2400			16	2.5	30	
SFR9214 4000			9	1.5	19	
FQD2P25 4000			6.5	2	37	
FQD4P40 -400 3100	1		18	2.7	50	
FQD2P40 6500		 	10	1.6	38	
SFR9310 8000			17	1.5	36	
FQD3P50 -500 4900			18	2.1	50	
FQD1P50 10500			11	1.2	38	

DPAK (TO-252)



IPAK (TO-251)



*These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.

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4.7

IPAK (TO-251) N-Channel

8.5

9.5

10.5

14.5

FDU6644

FDU6680A

FDU6030BL

HPLU3103

FDU6612A

HUF76129D3

HUF76107D3

HUF75329D3

HUF75321D3

HUF75307D3

HUF76429D3

HUF76423D3

HUF76419D3

FDU6692

IPAK (TO-251)



Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	gs =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
IPAK (TO-251) N	-Channel	(continued)						
FQU30N06L	60	39	47			15	24	44	
FQU30N06 HUF76413D3		45 49	56			19 17	22.7	60	
FQU20N06L		60	75			9.5	17.2	38	
FQU20N06		63				11.5	16.8	38	
HUF76409D3		63	71			12	18	49	
HUF76407D3		92	107			9.4	12	38	
FQU13N06L		110	140			4.8	11	28	
FQU13N06		140				5.8	10	28	
FDU3580	80	29	33@6			35	7.7	42	
FQU24N08 FQU17N08L		60 100	115			19 8.8	19.6 12.9	50 40	
FQU17N08		115	113			12	12.9	40	
FQU9N08L		210	230			4.7	7.4	25	
FQU9N08		210				5.9	7.4	25	
HUF76629D3	100	52	54			38	20	110	
HUF76619D3		85	87			24	18	75	
HUF75617D3		90				18	16	64	
FQU19N10L		100	110			14	15.6	50	
FQU19N10		100				19	15.6	50	
IRFU130A HUF76609D3		110 160	165			27 13	13	41 49	
FQU13N10L		180	200			8.7	10	49	
FQU13N10		180	200			12	10	40	
IRFU120A		200				16	8.4	32	
IRFU120*		270				9.7	8.4	50	
FQU7N10L		350	380			4.6	5.8	25	
FQU7N10		350				5.8	5.8	25	
IRFU110A		400				8.5	4.7	20	
IRFU110*		540	110			5.2	4.7	30	
IRLU110A IRLU120A			440 220			5.5 10.2	4.7 8.4	22 35	
IRLU130A			120			16.9	13	46	
HUF75829D3	150	110	120			31	18	110	
HUF75823D3		150				23	14	85	
FQU16N15		160				23	11.8	55	
FQU14N15		210				18	10	50	
FQU9N15		400				10	7	45	
FQU6N15		600				6.5	5.2	37	
FQU5N15	200	800 280	220			5.4	4.3 9	30 55	
FQU12N20L FQU12N20	200	280	320			16 18	9	55	
FQU10N20L		360	380			13	7.6	51	
FQU10N20		360	000			13.5	7.6	51	
FQU630		400				19	7	46	
IRFU230B		400				22	7.5	50	
IRFU230A		400				22	7.5	50	
FQU7N20		690				8	5.3	45	
FQU7N20L		750	780			6.8	5.5	45	
IRFU220B		800 800				12 12	4.6	40 40	
IRFU220A IRFU220*	200	800				12	4.6 4.6	50	
FQU5N20L	200	1200	1250			4.8	3.8	37	
FQU5N20		1200	55			6	3.8	37	
FQU4N20L		1350	1400			4	3.2	30	
FQU4N20		1400				5	3	30	
IRFU210B		1500				7.2	2.7	26	
IRFU210A		1500				7	2.7	26	
IRLU210A			1500			6.1	2.7	21	
IRLU220A			800			10.3	4.6	33	
IRLU230A	250	420	400			18.6	7.5	48	
FQU9N25 IRFU234B	250	420 450				15.5 29	7.4 6.6	55 49	
	i l	550				12	6.2	50	
FQU8N25		י טטט י							

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Part	V _{DS}	RD	S(ON) Max	. (mΩ) @ \	/gs =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
IPAK (TO-251)	N-Channel	(continued)						
IRFU224B	250	1100				13.5	3.8	42	
IRFU224A		1100				14	3.8	42	
FQU4N25	_	1750				4.3	3	37	
IRFU214B	-	2000				8.1	2.2	25	
IRFU214A FQU3N25	-	2000 2200				8.5 4	2.2	25 30	
FQU7N30	300	700				13	5.5	50	
FQU5N30	- 000	900				9.8	4.4	45	
FQU3N30	1	2200				5.5	2.4	30	
FQU2N30		3700				3.7	1.7	25	
IRFU330B	400	1000				25	4.5	48	
FQU6N40		1150				13	4.2	50	
FQU5N40		1600				10	3.4	45	
IRFU320B		1750				14	3.1	41	
IRFU320A	4	1800				19	3.1	41	
IRFU310B	_	3400				7.7	1.7	26	
FQU3N40	-	3400				6	2	30	
IRFU310A	-	3600				10	1.7	26	
FQU2N40 IRFU430B	500	5800 1500				25	1.4 3.5	25 48	
FQU5N50	- 300	1800				13	3.5	50	
IRFU420B	+	2600				14	2.3	41	
FQU4N50	-	2700				10	2.6	45	
IRFU420A	1	3000				19	2.3	41	
FQU2N50	1	5300				6	1.6	30	
SSU1N50B		5500				8.3	1.3	26	
IRFU410A		5500				9.5	1.3	26	
FQU1N50		9000				4	1.1	25	
IRFU410B		10000				5.1	0.9	20	
SSU4N60B	600	2500				22	2.8	49	
FQU3N60	_	3600				10	2.4	50	
FQU2N60	4	4700				9	2	45	
SSU2N60B	4	5000				12.5	1.8	44	
SSU2N60A	_	5000				15 5	1.8	44	
FQU1N60 SSU1N60B	_	11500 12000				5.9	0.9	30 28	
SSU1N60A	-	12000				7.5	0.9	28	
FQU2N80	800	6300				12	1.8	50	
FQU2N90	900	7200				12	1.7	50	
P-Channel									
RFD10P03L	-30		220			13	10	65	
FQU17P06	-60	135				21	12	44	
SFU9034		140				30	14	49	
FQU11P06	_	185			1	13	9.4	38	
SFU9024		280				15	7.8	32	
SFU2955	4	300			1	15	7.6	32	
FQU7P06	-	450			+	6.3	5.4	28	
SFU9014 FQU12P10	-100	500 290			1	9	5.3 9.4	24 50	
SFU9130	-100	300			+	30	9.4	57	
FQU8P10	\dashv	530			+	12	6.6	44	
SFU9120	-100	600				16	4.9	32	
IRFU9120*	7	600			1	12	5.6	42	
FQU5P10		1050				6.3	3.6	25	
SFU9110		1200				9	2.8	20	
FQU7P20	-200	690				19	5.7	55	
FQU5P20		1400				10	3.7	45	
SFU9220		1500				15	3.1	30	
FQU3P20		2700				6	2.4	37	
SFU9210		3000				9	1.6	19	
FQU6P25	-250	1100				21	4.7	55	
FQU4P25	_	2100			-	10	3.1	45	
SFU9224	_	2400				16	2.5	30	
SFU9214 FQU2P25	\dashv	4000 4000			+	9 6.5	1.5	19 37	
1-402459		4000		<u> </u>		0.0		31	

IPAK (TO-251)





^{*}These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.

IPAK (TO-251)



TO-263



Part	V _{DS}	R _D	S(ON) ^{Max}	. (mΩ) @ V ₍	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
IPAK (TO-251) P	-Channel (continued							
FQU4P40	-400	3100				18	2.7	50	
FQU2P40		6500				10	1.6	38	
SFU9310		8000				17	1.5	36	
FQU3P50	-500	4900				18	2.1	50	
FQU1P50		10500				11	1.2	38	

SLISHNSMANASST 15	TO-263 N-Channe	el							
FDB0301			2.3	3.3		110	75	345	
FDBT045 HUF7614SS3S SL9N304AS3ST HUF7614SS3S SL9N304AS3ST HUF7614SS3S SL5N304AS3ST HUF7614SS3S SL5N304AS3ST HUF7612SSS SL5N304AS3ST	ISL9N303AS3ST		3.2	5		68	75	215	
HUF7614SSSS	FDB8030L		3.5	4.5		120	80	187	
ISLBN04AS3ST HUF7613SSS FDB6676 FDB7030L FDB7040L FDB7040BLS FDB7040B	FDB7045L		4.5	6		50	100	125	
HUFF6143S3S F.DB6670AL F.DB67030BL F.DB	HUF76145S3S		4.5			73	75	0	
FDB6676 SLS	ISL9N304AS3ST		4.5	7.5		38	75	145	
ISLBN306AS3ST FDB6670AL FDB6670B FDB7030L ISLBN307ASST FDB7030L ISLBN307ASST FDB7030L FDB7030BL FDB	HUF76143S3S		5.5	8.5		50	75	225	
FDB6670AL FDB670AL FDB670BL FDB670BL FDB70BC	FDB6676		6	7.5		43	84	93	
FDB6676S FDB6676S FDB7030L SLENNS07AS3ST FDB7042L FDB7030BL FDB7030BL FDB604S FDB603BL FDB603BL FDB604S FDB606S FDB604S FDB606S	ISL9N306AS3ST		6	9.5		30	75	125	
FDB7030L SLSN907AS3ST FDB7047L HUF76139S3S FDB6644 FDB7030BL FDB7030BL FDB603BL F	FDB6670AL		6.5	8.5		35	80	75	
ISLON907AS3ST FDB7042L HUF76199S3S ISLON908AS3ST FDB6045A FDB7030BL FDB7030B	FDB6676S		6.7	8.2		40	76	70	SyncFET
FDB70742 HUF76139S3S FDB6644 FDB7030BL FDB703	FDB7030L		7	10			100	125	
HUFF613983S SLSN308AS3ST	ISL9N307AS3ST		7			28	75	100	
ISLBN908AS3ST FDB6044 FDB6044 FDB6044 FDB6030BL HUF76137S3S 9	FDB7042L		7.5	9		32	50	83	
FDB6644 FDB7030BL	HUF76139S3S		7.5	11		38	75	165	
PDB7030BL HUF76137S3S	ISL9N308AS3ST		8			24	75	100	
HUF76137838 SI_BINT0308HSSIT FDB66436 FDB66448 FDB66448 FDB66448 FDB66448 FDB66448 FDB66448 FDB66438 FDB6635L FDB6035L FDB6035L FDB6035L FDB6036L FDB6036L FDB6036L FDB6030L FDB6030L	FDB6644		8.5	15		27	50	83	
SLISH7030BLS3ST FD86644S 10	FDB7030BL		9	12		23	60	65	
FDB6644S SLSN310AS35T SLSN310AS35T SLSN310AS35T SLSN310AS35T SLSN312AS35T SLSN313AS35T SLSN322AS35T SLSN322A	HUF76137S3S		9	14		31	75	145	
ISL9N310AS3ST RF1S70N03SM PDB7030BLS FDB6035L	ISL9N7030BLS3ST		9			24	12.9	2.5	
The color of the	FDB6644S		10	12		27	55	60	SyncFET
FDB7030BLS FDB6035L HUF7612S3S FDB6036L HUF7612S3S HUF7612S3S FDB603AL FDB603AL FDB603AL HUF7612S3S HUF7612S3S HUF7612S3S FDB603AL HUF7612S3S HUF75337S3S HUF75337S3S HUF75337S3S HUF76337S3S FDB5645 FQB85N06 HUF76437S3S FDB5680 FQB55N06 FQB50N06L FQB50N06L HUF76437S3S FQB50N06L HUF76437S3S FQB50N06L HUF76437S3S HUF75327S3S HUF75327S3S HUF76347S3S FQB56N06 HUF76437S3S HUF76437S3S HUF76437S3S FQB56N06 HUF76437S3S HUF76437S3S HUF75327S3S HUF75327S3S HUF75327S3S HUF76437S3S H	ISL9N310AS3ST		10			17	62	70	
TDB6035L	RF1S70N03SM		10			120	70	150	
HUF76132S3S SLS9N312AS3ST 12	FDB7030BLS		10.5	16.5		15	56	65	SyncFET
12	FDB6035L		11	19			58	75	
TDB6035AL FDB6030L TDB6030L TDB6030L TDB6030L TDB6030BL TDB6030B	HUF76132S3S		11	18		25	75	120	
Tops: Figure 1	ISL9N312AS3ST		12			13	58	75	
FQB60N03L SL9N316AS3ST HUF76129S3S FDB6030BL HUF76121S3S NDB603AL FDB603AL E2	FDB6035AL		12.5	17		17	48	58	
SL9N316AS3ST	FDB6030L		13.5	20			52	75	
HUF76129S3S FD86030BL	FQB60N03L		13.5	19		34	60	100	
The color of the	ISL9N316AS3ST		15.5			13	48	65	
HUF76121S3S NDB603AL	HUF76129S3S		16	23		19	56	105	
NDB603AL	FDB6030BL		18	24		12	40	60	
FDB603AL SL9N322AS3ST SL2	HUF76121S3S		21	31		13	47	75	
SL9N322AS3ST	NDB603AL		22	40			25	50	
FDB4030L 35 55 20 37.5 HUF7534583S 55 7 125 75 325 HRF3205S 8 170 75 175 HUF7534383S 9 92 75 270 HUF7533783S 12 60 75 200 HUF7532183S 55 34 21 35 93 HUF7644583S 60 6.5 7.5 124 75 310 HUF7644383S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF7643983S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF7643283S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB50N06L 21 25<	FDB603AL		22	36			33	50	
HUF75345S3S	ISL9N322AS3ST		22			8.6	33	45	
HRF3205S 8 170 75 175 HUF75343S3S 9 92 75 270 HUF75337S3S 12 60 75 200 HUF75321S3S 55 34 21 35 93 HUF76445S3S 60 6.5 7.5 124 75 310 HUF76443S3S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF76437S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB50N06L 21 25 24.5 52 121 FQB50N06 22	FDB4030L		35	55			20	37.5	
HUF75343S3S 9 92 75 270 HUF75339S3S 12 60 75 200 HUF75337S3S 14 51 75 175 HUF75321S3S 55 34 21 35 93 HUF7644S3SS 60 6.5 7.5 124 75 310 HUF76443S3S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF7643PS3S 12 14 70 75 180 HUF7643PS3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB50N06L 21 25 24.5 52 121 FQB50N06 <td< td=""><td>HUF75345S3S</td><td>55</td><td></td><td></td><td></td><td>125</td><td>75</td><td></td><td></td></td<>	HUF75345S3S	55				125	75		
HUF75339S3S 12 60 75 200 HUF75337S3S 14 51 75 175 HUF75321S3S 55 34 21 35 93 HUF76445S3S 60 6.5 7.5 124 75 310 HUF76443S3S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120	HRF3205S						75	175	
HUF75337S3S 14 51 75 175 HUF75321S3S 55 34 21 35 93 HUF76445S3S 60 6.5 7.5 124 75 310 HUF76443S3S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120									
HUF75321S3S 55 34 21 35 93 HUF76445S3S 60 6.5 7.5 124 75 310 HUF76443S3S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120			12						
HUF76445S3S 60 6.5 7.5 124 75 310 HUF76443S3S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120									
HUF76443S3S 8 9.5 107 75 260 FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120									
FDB5645 9.5 11@6 76 80 125 FQB85N06 10 86 85 160 HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120		60							
FQB85N06 10 86 85 160 HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120									
HUF76439S3S 12 14 70 75 180 HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120				11@6					
HUF76437S3S 14 17 59 71 155 FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120									
FQB65N06 16 48 65 150 HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120							t		
HUF76432S3S 17 19 44 59 130 FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120				17					
FDB5680 20 23@6 33 40 65 FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120									
FQB55N06 20 35 55 133 FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120									
FQB50N06L 21 25 24.5 52 121 FQB50N06 22 31 50 120	-			23@6					
FQB50N06 22 31 50 120									
				25					
HUF76429S3S							 		
	HUF76429S3S		22	25		38	47	110	

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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V ₍	3S =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-263 N-Chani		ued)				65	, ,	, ,	I
FDB5690	60	27	32@6			23	32	58	
HUF76423S3S		30	35			28	35	85	
FQB30N06L		35	45			15	32	79	
HUF76419S3S		35	40			22	29	75	
FQB30N06		40				19	30	79	
FQB20N06L		55	70			9.5	21	53	
FQB20N06		60				11.5	20	53	
FQB13N06L		110	140			4.8	13.6	45	
FQB13N06		135				5.8	13	45	
HUF75545S3S	80	10				105	75	270	
HUF75542S3S		14				80	75	230	
FQB90N08		16				84	71	160	
FQB70N08		17				75	70	155	
FQB58N08		24				50	57	146	
FQB44N08		34				38	44	127	
FQB24N08		60	445			19	24	75	
FQB17N08L		100	115			8.8	16.5	65	
FQB17N08		115	000			12	16.5	65	
FQB9N08L		210	230			4.7	9.3	40	
FQB9N08	100	210				5.9	9.3	40	
HUF75645S3S HUF76645S3S	100	14	15			106 127	75 75	310 310	
FQB70N10		25	15			85	57	160	
HUF75639S3S		25				57	56	200	
FQB55N10		26				75	55	155	
HUF76639S3S		26	27			71	51	180	
HUF75637S3S		30	<u> </u>			48	44	155	
HUF76633S3S		35	36			56	39	145	
FQB44N10		39				48	43.5	146	
IRFW550A		40				75	40	167	
HUF75631S3S		40				35	33	120	
IRFW540A		52				60	28	107	
FQB33N10L		52	55			30	33	127	
FQB33N10		52				38	33	127	
HUF75623S3S		64				23	22	85	
FQB19N10L		100	110			14	19	75	
FQB19N10		100				19	19	75	
IRFW530A		110				27	14	55	
FQB13N10L		180	200			8.7	12.8	65	
FQB13N10		180				12	12.8	65	
IRFW520A		200				16	9.2	45	
FQB7N10L		350	380			4.6	7.3	40	
FQB7N10		350				5.8	7.3	40	
IRFW510A		400				8.5	5.6	33	
IRLW510A			440			5.5	5.6	37	
IRLW520A			220			10.2	9.2	49	
IRLW530A			120			16.9	14	62	
IRLW540A	4==		58			38.4	28	121	
FQB46N15	150	42				85	45.6	210	
HUF75842S3S		42	00.00			77	43	230	
FDB2570		80	90@6			40	22	93	
FQB28N15		90				40	28	168	
FQB16N15		160				23	16.4	108	
FQB14N15		210				18	14.4 9	104	
FQB9N15		400				10		75 63	
FQB6N15 FQB5N15		600 800				6.5 5.4	6.4 5.4	63 54	
HUF75945S3ST	200								
FQB34N20L	200	71 75	80			118 55	38 31	310 180	
FQB34N20L FQB34N20		75	00			60	31	180	
RFW650B		85				95	28	156	
HUF75939S3ST		125				64	22	180	
FDB2670		130				27	19	93	
FQB19N20L		140	150			27	21	140	
FQB19N20L		150	130			31	19.4	140	
- QD 101420		100				U 01	13.7	1-70	





Part	V _{DS}	Ro	C(ON) Max	. (mΩ) @ V ₍	oo =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	4	(A)	(W)	Comigaration
		1	4.5V	2.50	1.00	V _{GS} = 5V	(A)	(۷۷)	
TO-263 N-Chan	nel (contin 200	ued) 180				45	18	139	
IRFW640A	200	180				44	18	139	
FQB12N20L		280	320			16	11.6	90	
FQB12N20	-	280				18	11.6	90	
FQB10N20L		360	380			13	10	87	
FQB10N20		360				13.5	10	87	
IRFW630B		400				22	9	72	
IRFW630A		400				22	9	72	
FQB630 FQB7N20		400 690				19 8	9 6.6	78 63	
FQB7N20L	-	750	780			6.8	6.5	63	
IRFW620B		800	700			12	5	47	
IRFW620A		800				12	5	47	
FQB5N20L		1200	1250			4.8	4.5	52	
FQB5N20		1200				6	4.5	52	
FQB4N20L		1350	1400			4	3.8	45	
FQB4N20		1400				5	3.6	45	
IRFW610B		1500				7.2	3.3	38	
IRFW610A		1500	4500			7	3.3	38	
IRLW610A	-		1500			6.1	3.3	33	
IRLW620A IRLW630A	_		800 400			10.3 18.6	5 9	39 69	
IRLW640A	_		180			40	18	110	
FQB27N25	250	110	100			50	25.5	180	
IRFW654B		140				95	15	156	
FQB16N25		230				27	16	142	
IRFW644B		280				47	14	139	
IRFW644A		280				46	14	139	
FQB9N25		420				15.5	9.4	90	
IRFW634B		450				29	8.1	74	
IRFW634A FQB8N25		450 550				30 12	8.1 8	74 87	
FQB6N25	_	1000				6.6	5.5	63	
IRFW624B	-	1100				13.5	4.1	49	
IRFW624A		1100				14	4.1	49	
FQB4N25		1750				4.3	3.6	52	
IRFW614B		2000				8.1	2.8	40	
IRFW614A		2000				8.5	2.8	40	
FQB3N25		2200				4	2.8	45	
FQB14N30	300	290				30	9.1	147	
FQB9N30	_	450				17	9	98	
FQB7N30 FQB5N30		700 900				9.8	7 5.4	85 70	
FQB3N30		2200				5.5	3.4	55	
FQB2N30	-	3700				3.7	2.1	40	
FQB11N40	400	480				27	11.4	147	
IRFW740B		540				41	10	134	
IRFW740A		550				58	10	134	
FQB7N40		800				16.5	7	98	
IRFW730B	4	1000				25	5.5	73	
IRFW730A	_	1000				32	5.5	73	
FQB6N40	-	1150				13	5.5	85	
FQB5N40 IRFW720B	1	1600 1750				10 14	4.5 3.3	70 46	
IRFW720B	1	1800				19	3.3	46	
IRFW710B	1	3400				7.7	2	36	
FQB3N40	1	3400				6	2.5	55	
IRFW710A	1	3600				10	2	36	
FQB6N45	450	1100				16	6.2	98	
FQB9N50	500	730				28	9	147	
IRFW840B	_	850				41	8	134	
IRFW840A		850				57	8	134	
FQB6N50	-	1300				17	5.5	98	
IRFW830A	-	1500				33 13	4.5	73	
FQB5N50		1800				13	4.5	85	



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Part	V _{DS}	RDS	S(ON) Max.	(mΩ) @ V _C	ss =	Q _g (nC) @	l _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-263 N-Chan	1		1.0 1	2.00	1101	165	(71)	(**)	
IRFW820B	500	2600				14	2.5	49	
FQB4N50	- 300	2700				10	3.4	70	
IRFW820A	1	3000				19	2.5	49	
FQB2N50	1	5300				6	2.1	55	
SSW1N50B	1	5500				8.3	1.5	36	
SSW1N50A	1	5500				11	1.5	36	
FQB12N60	600	700				42	10.5	180	
SSW10N60B	1	800				54	9	156	
FQB7N60	1	1000				29	7.4	142	
SSW7N60B	1	1200				38	7	147	
SSW7N60A		1200				49	7	147	
FQB6N60		1500				20	6.2	130	
FQB5N60	1	2000				16	5	120	
FQB4N60	1	2200				15	4.4	106	
SSW4N60B		2500				22	4	100	
FQB3N60	1	3600				10	3	75	
FQB2N60		4700				9	2.4	64	
SSW2N60B		5000				12.5	2	54	
SSW2N60A		5000				15	2	54	
FQB1N60		11500				5	1.2	40	
SSW1N60B	1	12000				5.9	1	34	
SSW1N60A	1	12000				7.5	1	34	
FQB6N70	700	1500				30	6.2	142	
FQB7N80	800	1500				40	6.6	167	
FQB6N80	1	1950				31	5.8	158	
SSW5N80A	1	2200				52	5	140	
FQB5N80	1	2600				25	4.8	140	
FQB4N80	1	3600				19	3.9	130	
FQB3N80	1	5000				15	3	107	
FQB2N80	1	6300				12	2.4	85	
FQB6N90	900	1900				40	5.8	167	
FQB5N90	1	2300				31	5.4	158	
FQB4N90	1	3100				24	4.2	140	
FQB3N90	1	4250				20	3.6	130	
	4					15	2.8		
FUBZNA90	1	l 5800 l				1 10		1 107	
FQB2NA90 SSW3N90A	1	5800 6200						107 100	
SSW3N90A	-	6200				28	3	100	
	_								
SSW3N90A FQB2N90	-20	6200	30	40	65	28	3	100	
SSW3N90A FQB2N90 P-Channel	-20	6200	30 50	40 70@2.7	65	28 12	3 2.2	100 85	
SSW3N90A FQB2N90 P-Channel FDB6021P	-20	6200			65	28 12	3 2.2 28	100 85 37	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P		6200 7200			65	28 12 20	2.2 28 24	100 85 37 60	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06		6200 7200			65	28 12 20 84	3 2.2 28 24 47	100 85 37 60 160	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06		6200 7200 26 70			65	28 12 20 84 33	3 2.2 28 24 47 27	37 60 160 120	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06		26 70 120			65	28 12 20 84 33 21	3 2.2 28 24 47 27 17	100 85 37 60 160 120 79	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34		26 70 120 140			65	28 12 20 84 33 21 30	3 2.2 28 24 47 27 17 18	100 85 37 60 160 120 79 82	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06		26 70 120 140 175			65	28 12 20 84 33 21 30 13	3 2.2 28 24 47 27 17 18 11.4	100 85 37 60 160 120 79 82 53	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24		26 70 120 140 175 280			65	28 12 20 84 33 21 30 13	28 24 47 27 17 18 11.4 9.7	37 60 160 120 79 82 53 49	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955		26 70 120 140 175 280 300			65	28 12 20 84 33 21 30 13 15	28 24 47 27 17 18 11.4 9.7	37 60 160 120 79 82 53 49	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06		26 70 120 140 175 280 300 410			65	28 12 20 84 33 21 30 13 15 15 6.3	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7	37 60 160 120 79 82 53 49 49	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14	-60	26 70 120 140 175 280 300 410 500			65	28 12 20 84 33 21 30 13 15 15 6.3 9	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7	37 60 160 120 79 82 53 49 49 45 38	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10	-60	26 70 120 140 175 280 300 410 500 125			65	28 12 20 84 33 21 30 13 15 15 6.3 9	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7	37 60 160 120 79 82 53 49 45 38 125	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10 FQB17P10	-60	26 70 120 140 175 280 300 410 500 125			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5	37 60 160 120 79 82 53 49 45 38 125	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10 FQB17P10 SFW9540	-60	26 70 120 140 175 280 300 410 500 125 190 200			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5	100 85 37 60 160 120 79 82 53 49 45 38 125 100	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10 FQB17P10 SFW9540 FQB12P10	-60	26 70 120 140 175 280 300 410 500 125 190 200 290			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43 21	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5	100 85 37 60 160 120 79 82 53 49 45 38 125 100 132	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10 FQB17P10 SFW9540 FQB12P10 SFW9530	-60	26 70 120 140 175 280 300 410 500 125 190 200 290 300			65	28 12 20 84 33 21 30 13 15 6.3 9 40 30 43 21 30	3 2.2 28 24 47 27 17 18 11.4 9.7 9.7 6.7 22 16.5 17 11.5	37 60 160 120 79 82 53 49 45 38 125 100 132 75 66	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW9955 FQB7P06 SFW9Z14 FQB2P10 FQB17P10 SFW9540 FQB12P10 SFW9530 FQB8P10	-60	26 70 120 140 175 280 300 410 500 125 190 200 290 300 530			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43 21 30	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5	100 85 37 60 160 120 79 82 53 49 45 38 125 100 132 75 66	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10 FQB17P10 SFW9540 FQB12P10 SFW9530 FQB8P10 SFW9520	-60	26 70 120 140 175 280 300 410 500 125 190 200 290 300 530 600			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43 21 30 12	28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5 8 6	37 60 160 120 79 82 53 49 45 38 125 100 132 75 66 65 49	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10 FQB12P10 SFW9540 FQB12P10 SFW9530 FQB8P10 SFW9520 FQB5P10	-60	6200 7200 7200 26 70 120 140 175 280 300 410 500 125 190 200 290 300 530 600 1050			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43 21 30 12 16 6.3	28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5 8 6 4.5	37 60 160 120 79 82 53 49 45 38 125 100 132 75 66 65 49 40	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB2P10 FQB12P10 SFW9540 FQB12P10 SFW9530 FQB8P10 SFW9520 FQB5P10 SFW9510	-60 -100 -100	6200 7200 7200 26 70 120 140 175 280 300 410 500 125 190 200 290 300 530 600 1050			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43 21 30 12 16 6.3 9	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5 8 6 4.5 3.6	37 60 160 120 79 82 53 49 45 38 125 100 132 75 66 65 49 40 32	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB22P10 FQB17P10 SFW9540 FQB12P10 SFW9530 FQB8P10 SFW9520 FQB5P10 FW9510 FW9510 FW9510 FW9510	-60 -100 -100	6200 7200 26 70 120 140 175 280 300 410 500 125 190 200 290 300 530 600 1050 1200 470			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43 21 30 12 16 6.3 9 31	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5 8 6 4.5 3.6 11.5	37 60 160 120 79 82 53 49 49 45 38 125 100 132 75 66 65 49 40 32	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 SFW9Z14 FQB22P10 FQB17P10 SFW9540 FQB12P10 SFW9530 FQB8P10 SFW9520 FQB5P10 SFW9510 FQB12P20 SFW9640	-60 -100 -100	6200 7200 26 70 120 140 175 280 300 410 500 125 190 200 290 300 530 600 1050 1200 470 500			65	28 12 20 84 33 21 30 13 15 15 6.3 9 40 30 43 21 30 43 21 30 43 21 30 40 30 43 40 30 43 40 40 40 40 40 40 40 40 40 40	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5 10.5 8 6 4.5 3.6 11.5	37 60 160 120 79 82 53 49 45 38 125 100 132 75 66 65 49 40 32 120 123	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 FQB17P10 SFW9Z14 FQB22P10 FQB17P10 SFW9540 FQB12P20 SFW9530 FQB8P10 SFW9520 FQB5P10 SFW9510 FQB12P20 SFW9640 FQB7P20 SFW9630	-60 -100 -100	6200 7200 26 70 120 140 175 280 300 410 500 125 190 290 300 530 600 1050 1200 470 500 690			65	28 12 20 84 33 21 30 13 15 6.3 9 40 30 43 21 30 12 16 6.3 9 31 46	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5 8 6 4.5 3.6 11.5	37 60 160 120 79 82 53 49 45 38 125 100 132 75 66 65 49 40 32 120 123 90	
SSW3N90A FQB2N90 P-Channel FDB6021P NDB6020P FQB47P06 FQB27P06 FQB17P06 SFW9Z34 FQB11P06 SFW9Z24 SFW2955 FQB7P06 FQB17P10 SFW9Z14 FQB22P10 FQB17P10 SFW9540 FQB12P20 FQB5P10 SFW9520 FQB5P10 SFW9510 FQB12P20 SFW9640 FQB7P20	-60 -100 -100	6200 7200 26 70 120 140 175 280 300 410 500 125 190 200 290 300 530 600 1050 1200 470 500 690 800			65	28 12 20 84 33 21 30 13 15 6.3 9 40 30 43 21 30 12 16 6.3 9 31 46 19 29	3 2.2 28 24 47 27 17 18 11.4 9.7 9.4 7 6.7 22 16.5 17 11.5 10.5 8 6 4.5 3.6 11.5 11 7.3 6.5	37 60 160 120 79 82 53 49 45 38 125 100 132 75 66 65 49 40 32 120 123 90 70	





Part	V _{DS}	R _D	S(ON) Max	Q _g (nC) @	I _D	PD	Configuration		
Number	(V)	10V	4.5V	2.5V	1.8V	Q _g (nC) @ V _{GS} = 5V	(A)	(W)	
TO-263 P-Chan	nel (contin	ued)							
SFW9610	-200	3000				9	1.8	20	
FQB9P25	-250	620				29	9.4	120	
SFW9644		800				45	8.6	123	
FQB6P25		1100				21	6	90	
SFW9634		1300				29	5	70	
FQB4P25		2100				10	4	75	
SFW9624		2400				16	2.7	38	
SFW9614		4000				9	1.6	20	
FQB2P25		4000				6.5	2.3	52	
FQB4P40	-400	3100				18	3.5	85	
FQB2P40		6500				10	2	63	
FQB3P50	-500	4900				18	2.7	85	
FQB1P50		10500				11	1.5	63	

TO-220



I²PAK



HUF76013P3	TO-220 / I ² PAK N	N-Channel							
ISLSN030AP3 FDP803DL FDP7045L FDP6076F FDP6076F FDP6076F FDP6076F FDP6076F FDP6076F FDP6076F FDP6076F FDP6076L FDP6076F FDP6076L FDP6076L FDP6076L FDP6076L FDP6076L FDP6076L FDP7045L FDP704	HUF76013P3	20	22	30		7.5	20	50	
ISLSN303AP3	HUF76009P3		27	39		5.7	20	41	
FDP8030L FDP8030L	ISL9N302AP3	30	2.5	3.3		110	75	345	
FDPT04SL HUF76143P3 FDPT604SL HUF76143P3 FDPT030L FDPT030BL FDPT	ISL9N303AP3		3.2	5		61	75	215	
HUFF6145P3	FDP8030L		3.5	4.5		120	80	187	
ISLBN304AP3 HUF76143P3 FDP6676 FDP6676S FDP7030L FDP7030L FDP7030L FDP7030L FDP7030L FDP7042L FDP6676S FDP7030L FDP7030L FDP7042L FDP6676 FDP7030L FDP7030BL FDP7030BL			4.5	6		50	100	125	
HUF76143P3 FDP6676 SISL9N306AP3 FDP6676AL FDP6676BL FDP7030AL FDP7042L FDP6044BL	HUF76145P3		4.5	6.5		73	75	270	
FDP6676 SLS19306AP3 FDP6670AL FDP6676S G. 9.5 30	ISL9N304AP3		4.5	7.5		38	75	145	
ISL9N306AP3	HUF76143P3		5.5	8.5		50	75	225	
FDP6670AL FDP6676S FDP6676S FDP6070S FDP7030L SLSPN307AP3 FDP7042L FDP7030L FDP7030L FDP7042L FDP7030L FDP7042L FDP7030BL FDP6644 FDP7030BL FDP6644 FDP7030BL FDP6644 FDP7030BL FDP6644 FDP6648 FDP6030BL FDP6648 FDP6030BL FDP6030B	FDP6676		6	7.5		43	84	93	
FDP6676S FDP7030L FDP7030L FDP7030L FDP7030L FDP7042L FDP7042L FDP7042L FDP7042L FDP7042L FDP7042L FDP7042L FDP7030BL FDP6030L FDP6030L	ISL9N306AP3		6	9.5		30	75	125	
FDP7030L SLS9N307AP3 FDP7042L FDP7030BL FDP603AL FDP60	FDP6670AL		6.5	8.5		35	80	75	
SLSPN307AP3 FDP7042L	FDP6676S		6.7	8.2		40	76	70	SyncFET
FDP7042L HUF76139P3	FDP7030L		7	10			100	125	-
HUF76139P3 SLS9N308AP3 FDP6030L HUF76137P3 FDP6030L HUF7613P3 FDP6030L HUF7612P3 FDP6030L HUF7	ISL9N307AP3		7			28	75	100	
SL9N308AP3 FDP6644	FDP7042L		7.5	9		32	50	83	
FDP6644 FDP7030BL FDP7030BL FDP7030BL FDP7030BL FDP6030L FDP603	HUF76139P3		7.5	11		38	75	165	
PDP7030BL	ISL9N308AP3		8			24	75	100	
HUF76137P3 SL9N7030BLP3 FDR6644S SUBJECT SUBJE	FDP6644		8.5	15		27	50	83	
SL9N7030BLP3	FDP7030BL		9	12		23	60	65	
SL9N7030BLP3	HUF76137P3		9	14		31	75	145	
SL9N310AP3	ISL9N7030BLP3		9			24		100	
SL9N310AP3	FDP6644S		10	12		27	55	60	SyncFET
RF1570N03 RFP70N03 FDP7030BLS FDP6035L HUF76121P3 FDP603AL HUF76121P3 FDP603AL HUF76107P3 SUZ711* SUZ711	ISL9N310AP3		10			17	62	70	•
RFP70N03			10			120	70	150	
FDP7030BLS			10			120	70	150	
The color of the			10.5	16.5		15	56	65	SyncFET
SL9N312AP3	FDP6035L		11	19			58	75	,
FDP6035AL FDP6030L FDP6030L FDP60N03L FDP60N03L FQP60N03L FDP60N03L FDP60N	HUF76132P3		11	18		25	75	120	
FDP6030L FQP60N03L FQP60	ISL9N312AP3		12			13	58	75	
Top-60 T	FDP6035AL		12.5	17		17	48	58	
SL9N316AP3	FDP6030L		13.5	20			52	75	
SEL9N316AP3				19		34	60	100	
TDP6030BL FQP45N03L FQP45N03L FQP45N03L FQP45N03L FQP45N03L FQP45N03L FQP45N03L FQP45N03L FQP45N03L FQP603AL	ISL9N316AP3					13	48	65	
FQP45N03L HUF76121P3	HUF76129P3		16	23		19	56	105	
HUF76121P3 FDP603AL NDP603AL ISL9N322AP3 FDP4030L HUF76107P3 BUZ71* BUZ71* BUZ71A* HUF75345P3 HUF75345S3 21 31 31 347 75 33 50 33 50 33 50 33 45 22 40 22 40 25 50 20 37.5 20 37.5 4.7 20 35 4.7 20 35 30 75 30 75 30 75 313 40 40 40 40 40 40 40 40 40 40 40 40 40 4			18			12	40	60	
DP603AL	FQP45N03L		18	25		20	45	75	
NDP603AL SL9N322AP3 FDP4030L 35 55	HUF76121P3		21	31		13	47	75	
SL9N322AP3 22	FDP603AL		22	36			33	50	
FDP4030L 35 55 20 37.5 HUF76107P3 52 85 4.7 20 35 BUZ11* 50 40 30 75 BUZ71* 100 14 40 BUZ71A* 120 13 40 HUF75345P3 55 7 125 75 325 HUF75345S3 7 125 75 325	NDP603AL		22	40			25	50	
HUF76107P3 52 85 4.7 20 35 BUZ11* 50 40 30 75 BUZ71* 100 14 40 BUZ71A* 120 13 40 HUF75345P3 55 7 125 75 325 HUF75345S3 7 125 75 325	ISL9N322AP3		22			8.6	33	45	
HUF76107P3 52 85 4.7 20 35 BUZ11* 50 40 30 75 BUZ71* 100 14 40 BUZ71A* 120 13 40 HUF75345P3 55 7 125 75 325 HUF75345S3 7 125 75 325				55			 	37.5	
BUZ11* 50 40 30 75 BUZ71* 100 14 40 BUZ71A* 120 13 40 HUF75345P3 55 7 125 75 325 HUF75345S3 7 125 75 325						4.7			
BUZ71* 100 14 40 BUZ71A* 120 13 40 HUF75345P3 55 7 125 75 325 HUF75345S3 7 125 75 325		50							
BUZ71A* 120 13 40 HUF75345P3 55 7 125 75 325 HUF75345S3 7 125 75 325							-	-	
HUF75345P3 55 7 125 75 325 HUF75345S3 7 125 75 325									
HUF75345S3 7 125 75 325		55				125			
							_		
HRF3205 8 8 1 170 75 175			8						

^{*}These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.

Part	V _{DS}	R _D	S(ON) Max.	(mΩ) @ V	'gs =	Q _q (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK I	1	(continue	d)		•				
HUF75344P3	55	8				90	75	285	
HUF75343P3		9				92	75	270	
HUF75343S3		9			-	92	75	270	
HUF75339P3		12 14				60	75 75	200	
HUF75337P3		16				51 40	66	175 150	
HUF75333P3 HUF75333S3		16				40	66	150	
HUF75332P3		19				40	60	145	
HRFZ44N		22				43	49	120	
HUF75229P3		22				35	44	90	
HUF75329P3		26				35	49	128	
HUF75329S3		26				35	49	128	
HUF75321P3		34				21	35	93	
HUF75309P3		70				11	19	55	
HUF75307P3		90				9	15	45	
HUF76445P3	60	6.5	7.5			124	75	310	
HUF76443P3		8	9.5			107	75	260	
FDP5645		9.5	11@6			76	80	125	
FQPF85N06		10				86	53	62	
FQP85N06		10				86	85	160	
FQI85N06		10				86	85	160	
HUF76439P3		12	14			70	75	180	
HUF76437P3		14	17			59	71	155	
FQPF65N06		16				48	40	56	
FQP65N06		16				48	65	150	
FQI65N06		16				48	65	150	
HUF76432P3		17	19			44	59	130	
FDP5680		20	23@6			33	40	65	
FQPF55N06		20				35	33	48	
FQP55N06		20				35	55	133	
FQI55N06		20	0.5		1	35	55	133	
FQPF50N06L		21 21	25 25			24.5 24.5	32.6 52	47 121	
FQP50N06L FQI50N06L		21	25			24.5	52	121	
FQPF50N06		22	23			31	31	47	
FQP50N06		22				31	50	120	
FQI50N06		22				31	50	120	
HUF76429P3		22	25		+	38	47	110	
FDP5690		27	32@6			23	32	58	
HUF76423P3		30	35			28	35	85	
FQPF30N06L		35	45			15	22.5	38	
FQP30N06L		35	45			15	32	79	
FQI30N06L		35	45			15	32	79	
HUF76419P3		35	40			22	29	75	
FQPF30N06		40				19	21	39	
FQP30N06		40				19	30	79	
FQI30N06		40				19	30	79	
RF1S25N06		47				35	25	72	
HUF76413P3		49	56			17	23	60	
FQPF20N06L		55	70			9.5	15.7	30	
FQP20N06L		55	70			9.5	21	53	
FQI20N06L		55	70		-	9.5	21	53	
FQPF20N06		60			1	11.5	15	30	
FQP20N06		60				11.5	20	53	
FQI20N06		60			1	11.5	20	53	
HUF76409P3		62	70		1	12	18	49	
HUF76407P3		92	107		-	9.4	13	38	
FQPF13N06L		110	140			4.8	10	24	
FQP13N06L		110	140			4.8	13.6	45	
FQI13N06L		110	140		-	4.8	13.6	45	
FQPF13N06		135			-	5.8	9.4	24	
FQP13N06		135			1	5.8	13	45	
FQI13N06	80	135 10			1	5.8 105	13 75	45 270	
HUF75545P3							. /h		



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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V ₍	3S =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I2PAK N	N-Channel	(continue	d)			- 55			
FQPF90N08	80	16				84	44	62	
FQP90N08		16				84	71	160	
FQI90N08 FQPF70N08		16 17				75	71 43.6	160 60	
FQP70N08		17				75	70	155	
FQI70N08		17				75	70	155	
FQPF58N08		24				50	35	55	
FQP58N08		24				50	57	146	
FQI58N08		24				50	57	146	
FQPF44N08		34				38	25	41	
FQP44N08		34				38	44	127	
FQI44N08 FQPF24N08		34 60				38 19	44 17	127 38	
FQP24N08		60				19	24	75	
FQI24N08		60				19	24	75	
FQPF17N08L		100	115			8.8	11.2	30	
FQP17N08L		100	115			8.8	16.5	65	
FQI17N08L		100	115			8.8	16.5	65	
FQPF17N08		115				12	11.2	30	
FQP17N08		115				12	16.5	65	
FQI17N08		115	200			12	16.5	65	
FQPF9N08L		210	230			4.7	7	23	
FQPF9N08 FQP9N08L		210 210	230			5.9 4.7	7 9.3	23 40	
FQI9N08L		210	230			4.7	9.3	40	
FQP9N08		210	200			5.9	9.3	40	
FQI9N08		210				5.9	9.3	40	
HUF75645P3	100	14				106	75	310	
HUF76645P3		14	15			127	75	310	
SSS70N10A		23				151	28	49	
FQPF70N10		25				85	35	62	
FQP70N10		25				85	57	160	
FQI70N10 HUF75639P3		25 25				85 57	57 56	160 200	
HUF75639S3		25				57	56	200	
FQPF55N10		26				75	34.2	60	
FQP55N10		26				75	55	155	
FQI55N10		26				75	55	155	
HUF76639P3		26	27			71	51	180	
HUF75637P3		30				48	44	155	
HUF76633P3		35	36			56	39	145	
FQPF44N10		39 39				48	27	55 146	
FQP44N10 FQI44N10		39				48 48	43.5 43.5	146	
IRFS550A		40				75	21	46	
IRFI550A		40				75	40	167	
IRF550A		40				75	40	167	
HUF75631P3		40				35	33	120	
IRF540N*		40				35	33	120	
IRFS540A		52				60	17	39	
FQPF33N10L		52	55			30	18	41	
FQPF33N10		52				38	18	41	
IRFI540A IRF540A		52 52				60	28 28	107 107	
FQP33N10L		52	55			30	33	107	
FQI33N10L		52	55			30	33	127	
FQP33N10		52				38	33	127	
FQI33N10		52				38	33	127	
HUF75623P3		64				23	22	85	
IRF530N*		64				23	22	85	
IRF540*		77				38	28	120	
FQPF19N10L		100	110			14	13.6	38	
FQPF19N10		100	440			19	13.6	38	
FQP19N10L		100 100	110 110			14 14	19 19	75 75	
FQI19N10L		100	110			14	1 19	13	

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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK		(continue	d)			00	, ,	, ,	
FQP19N10	100	100				19	19	75	
FQI19N10]	100				19	19	75	
IRFS530A		110				27	10.7	32	
IRFI530A		110				27	14	55	
IRF530A		110				27	14	55	
IRF530*		160				18	14	79	
FQPF13N10L		180	200			8.7	8.7	30	
FQPF13N10	1	180				12	8.7	30	
FQP13N10L	-	180	200			8.7	12.8	65	
FQI13N10L	-	180	200			8.7	12.8	65	
FQP13N10	-	180				12	12.8	65	
FQI13N10 IRFS520A	1	180 200				12 16	12.8 7.2	65 28	
IRFI520A	-	200				16	9.2	45	
IRF520A	1	200				16	9.2	45	
IRF520*	-	270				10	9.2	60	
FQPF7N10L	1	350	380			4.6	5.5	23	
FQPF7N10	1	350	500			5.8	5.5	23	
FQP7N10L	1	350	380			4.6	7.3	40	
FQI7N10L	1	350	380			4.6	7.3	40	
FQP7N10	1	350				5.8	7.3	40	
FQI7N10	1	350				5.8	7.3	40	
IRFS510A	1	400				8.5	4.5	21	
IRFI510A	1	400				8.5	5.6	33	
IRF510A	1	400				8.5	5.6	33	
IRF510*	1	540				5	5.6	43	
IRLS510A			440			5.5	4.5	23	
IRLI510A			440			5.5	5.6	37	
IRL510A			440			5.5	5.6	37	
IRLS520A			220			10.2	7.2	30	
IRLI520A	1		220			10.2	9.2	49	
IRL520A			220			10.2	9.2	49	
IRLS530A	1		120			16.9	10.7	36	
IRLI530A			120			16.9	14	62	
IRL530A	1		120			16.9	14	62	
IRLS540A	-		58			38.4	17	44	
IRLI540A	-		58			38.4	28	121	
IRL540A	450	40	58			38.4	28	121	
FQPF46N15	150	42				85	25.6	66	
FQP46N15 FQI46N15	1	42 42				85	45.6 45.6	210 210	
HUF75842P3	-	42				85 77	43.6	230	
HUF75842S3	1	42				77	43	230	
FDP2570	1	80	90@6			40	22	93	
FQPF28N15	1	90	33000			40	16.7	60	
FQP28N15	1	90				40	28	168	
FQI28N15	1	90				40	28	168	
FQPF16N15	1	160				23	11.6	53	
FQP16N15]	160				23	16.4	108	
FQI16N15]	160				23	16.4	108	
FQPF14N15	<u></u>	210				18	9.8	48	
FQP14N15	150	210				18	14.4	104	
FQI14N15]	210				18	14.4	104	
FQPF9N15	1	400				10	6.9	44	
FQP9N15	1	400				10	9	75	
FQI9N15	1	400				10	9	75	
FQPF6N15	1	600				6.5	5	38	
FQP6N15	4	600				6.5	6.4	63	
FQI6N15	1	600				6.5	6.4	63	
FQPF5N15	1	800				5.4	4.2	32	
FQP5N15	-	800				5.4	5.4	54	
FQI5N15	000	800				5.4	5.4	54	
SSS45N20B	200	65				133	20	57	
SSP45N20B	1	65				133	35	176	
HUF75945P3		71				118	38	310	



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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	gs =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK I	1	ı`	ľ						<u>'</u>
FQPF34N20L	200	75	80			55	17.5	55	
FQPF34N20 FQP34N20L	-	75 75	80			60 55	17.5 31	55 180	
FQI34N20L	-	75	80			55	31	180	
FQP34N20	1	75				60	31	180	
FQI34N20	1	75				60	31	180	
IRFS650B		85				95	15.8	50	
IRFS650A		85				95	15.8	50	
IRFI650B		85				95	28	156	
IRF650B		85				95	28	156	
HUF75939P3	-	125				64	22	180	
FDP2670 FQPF19N20L	-	130 140	150			27 27	19 12.8	93	
FQP19N20L		140	150			27	21	50 140	
FQI19N20L		140	150			27	21	140	
FQPF19N20	1	150	130			31	11.8	50	
FQP19N20		150				31	19.4	140	
FQI19N20		150				31	19.4	140	
IRF640N*	1	150				64	18	150	
IRFS640B		180				45	9.8	43	
IRFS640A		180				44	9.8	43	
IRFI640B		180				45	18	139	
IRFI640A		180				44	18	139	
IRF640B		180				45	18	139	
IRF640A		180				44	18	139	
IRF640*		180				43	18	125	
HUF75925P3		275	200			32	11	100	
FQPF12N20L FQPF12N20		280 280	320			16 18	8.2 8.2	45 45	
FQP12N20L		280	320			16	11.6	90	
FQI12N20L		280	320			16	11.6	90	
FQP12N20		280				18	11.6	90	
FQI12N20	1	280				18	11.6	90	
IRF630N*		300				32	9.3	82	
FQPF10N20L		360	380			13	6.8	40	
FQPF10N20		360				13.5	6.8	40	
FQP10N20L		360	380			13	10	87	
FQI10N20L		360	380			13	10	87	
FQP10N20		360				13.5	10	87	
FQI10N20 FQPF630	-	360 400				13.5 19	10 6.3	87 38	
IRFS630B		400				22	6.5	38	
IRFS630A		400				22	6.5	38	
IRFI630B		400				22	9	72	
IRFI630A]	400				22	9	72	
IRF630B]	400				22	9	72	
IRF630A		400				22	9	72	
FQP630	1	400				19	9	78	
FQI630	-	400				19	9	78	
IRF630*	-				-		1.		
FQPF7N20 FQP7N20	1	690				8	4.8	37 63	
FQP7N20 FQI7N20	1	690 690				8	6.6 6.6	63 63	
FQPF7N20L	†	750	780			6.8	5	37	
FQP7N20L	1	750	780			6.8	6.5	63	
FQI7N20L	1	750	780			6.8	6.5	63	
IRFS620B]	800				12	4.1	32	
IRFS620A]	800				12	4.1	32	
IRFI620B]	800				12	5	47	
IRFI620A]	800				12	5	47	
IRF620B		800				12	5	47	
IRF620A		800				12	5	47	
IRF620*	4	800				11	5	40	
FQPF5N20L		1200	1250			4.8	3.5	32	
FQPF5N20		1200				6	3.5	32	

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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK	N-Channel	(continue	d)				ı	ı	
FQP5N20L	200	1200	1250			4.8	4.5	52	
FQI5N20L		1200	1250			4.8	4.5	52	
FQP5N20	-	1200				6	4.5	52	
FQI5N20	-	1200	1400			6 4	4.5	52 27	
FQPF4N20L FQP4N20L	1	1350 1350	1400 1400			4	3.8	45	
FQI4N20L	1	1350	1400			4	3.8	45	
FQPF4N20	1	1400	1100			5	2.8	27	
FQP4N20	1	1400				5	3.6	45	
FQI4N20]	1400				5	3.6	45	
IRFS610B		1500				7.2	2.5	22	
IRFS610A		1500				7	2.5	22	
IRFI610B		1500				7.2	3.3	38	
IRFI610A		1500				7	3.3	38	
IRF610B		1500				7.2	3.3	38	
IRF610A	-	1500				7	3.3	38	
IRF610*	1	1500	1500			5.3	3.3	43	
IRLS610A	1		1500 1500			6.1 6.1	2.5 3.3	19 33	
IRLI610A IRL610A	†		1500			6.1	3.3	33	
IRLS620A	1		800			10.3	4.1	26	
IRLI620A	†		800			10.3	5	39	
IRL620A	1		800			10.3	5	39	
IRLS630A			400			18.6	6.5	36	
IRLI630A	1		400			18.6	9	69	
IRL630A			400			18.6	9	69	
IRLS640A			180			40	9.8	40	
IRLI640A			180			40	18	110	
IRL640A			180			40	18	110	
FQPF27N25	250	110				50	14	55	
FQP27N25	-	110				50	25.5	180	
FQI27N25	-	110				50	25.5	180	
IRFS654B IRFS654A	-	140 140				95 88	12 12	50 50	
IRFI654B	-	140				95	15	156	
IRF654B	1	140				95	15	156	
FQPF16N25	1	230				27	9.5	50	
FQP16N25	1	230				27	16	142	
FQI16N25]	230				27	16	142	
IRFS644B		280				47	7.9	43	
IRFS644A		280				46	7.9	43	
IRFI644B		280				47	14	139	
IRFI644A		280				46	14	139	
IRF644B	1	280				47	14	139	
IRF644A	1	280				46	14	139	
FQPF9N25 FQP9N25	1	420 420				15.5 15.5	6.7 9.4	45 90	
FQP9N25 FQI9N25	1	420				15.5	9.4	90	
IRFS634B	1	450				29	5.8	38	
IRFS634A	1	450				30	5.8	38	
IRFI634B	1	450				29	8.1	74	
IRFI634A]	450				30	8.1	74	
IRF634B]	450				29	8.1	74	
IRF634A		450				30	8.1	74	
FQPF8N25	1	550				12	5.5	40	
FQP8N25	1	550				12	8	87	
FQI8N25	1	550				12	8	87	
FQPF6N25	1	1000				6.6	4	37	
FQP6N25	-	1000				6.6	5.5	63	
FQI6N25 IRFS624B	1	1000 1100				6.6 13.5	5.5 3.4	63 34	
IRFS624B	1	1100				13.5	3.4	34	
IRFI624B	†	1100				13.5	4.1	49	
IRFI624A	1	1100				14	4.1	49	
IRF624B	1	1100				13.5	4.1	49	
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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	gs =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK I	N-Channel	(continue	d)						
IRF624A	250	1100				14	4.1	49	
FQPF4N25 FQP4N25		1750 1750				4.3	2.8 3.6	32 52	
FQI4N25		1750				4.3	3.6	52	
IRFS614B		2000				8.1	2.1	22	
IRFS614A		2000				8.5	2.1	22	
IRFI614B		2000				8.1	2.8	40	
IRFI614A		2000				8.5	2.8	40	
IRF614B		2000				8.1	2.8	40	
IRF614A FQPF3N25		2000 2200				8.5 4	2.8	40 27	
FQP3N25		2200				4	2.8	45	
FQI3N25		2200				4	2.8	45	
IRF646*	275	280				39	14	125	
FQPF22N30	300	160				47	12	56	
FQP22N30		160				47	21	170	
FQPF14N30		290				30	8.5	50	
FQP14N30 FQI14N30		290				30 30	9.1	147	
FQPF9N30		290 450				17	9.1 6	147 42	
FQP9N30		450				17	9	98	
FQI9N30		450				17	9	98	
FQPF7N30		700				13	4.9	39	
FQP7N30		700				13	7	85	
FQI7N30		700				13	7	85	
FQPF5N30		900				9.8	3.9	35	
FQP5N30 FQI5N30		900				9.8 9.8	5.4 5.4	70 70	
FQPF3N30		2200				5.5	2	20	
FQP3N30		2200				5.5	3.2	55	
FQI3N30		2200				5.5	3.2	55	
FQP2N30		3700				3.7	1.3	16	
FQPF2N30		3700				3.7	2.1	40	
FQI2N30	400	3700				3.7	2.1	40	
FQPF17N40 FQP17N40	400	270 270				45 45	9.5 16	56 170	
IRFS750A		300				101	8.4	49	
FQPF11N40		480				27	6.6	50	
FQP11N40		480				27	11.4	147	
FQI11N40		480				27	11.4	147	
IRFS740B		540				41	5.7	44	
IRFI740B		540				41	10	134	
IRF740B IRFS740A		540 550				41 58	10 5.7	134 44	
IRFI740A		550				58	10	134	
IRF740A		550				58	10	134	
IRF740A*]	550				25	10	147	
IRF740*		550				41	10	125	
FQPF7N40		800				16.5	4.6	42	
FQP7N40		800				16.5	7	98	
FQI7N40 IRFS730B		800 1000				16.5 25	7 3.9	98 38	
IRFS730B		1000				32	3.9	38	
IRFI730B		1000				25	5.5	73	
IRFI730A		1000				32	5.5	73	
IRF730B		1000				25	5.5	73	
IRF730A		1000				32	5.5	73	
IRF730*		1000				20	5.5	75	
FQPF6N40		1150				13	3.7	39	
FQP6N40 FQI6N40		1150 1150			-	13 13	5.5 5.5	85 85	
FQPF5N40		1600				10	3	35	
FQP5N40		1600				10	4.5	70	
FQI5N40		1600				10	4.5	70	
IRFS720B		1750				14	2.8	33	

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Number (V)	Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
TO-220 FFATA K-Channel Continues)	Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
IRFT20B IRF02DB IRF0	TO-220 / I ² PAK	1	(continue	d)				. ,	, ,	
IRFSTZOA IRFTZOA IRFTZOA IRFTZOA IRFTZOA IRFTZOA IRFTZOA IRFTZOA IRFTZOBA							14	3.3	46	
IRF720A IRF720A IRF720F IRF720B IRF720C IRF720B SAVIO										
IRF720A IRF2010B		_								
IRF270C IRF370C IRF3		_								
IRFST10B FOPFSMO		-								
FOPPSIND SEPTION SEP		-								
IRFT10B IRFT10B IRFT10B IRFT10B IRFT10B IRFT10B IRFT10B IRFT10B IRFT10B IRFT10A IRFT		1								
FOPSMOD							 			
FOLISMO	IRF710B		3400				7.7	2	36	
IRFS710A IRF710A IRF	FQP3N40		3400				6	2.5	55	
IRFT10A IRFT10F										
IRF710A IRF710A IRF710C IRF710C IRF710C IRF710C IRF710C IRF710C IRF010C IRF710C IRF7							†			
IRFT10' S800		_	-							
FOPPENAD		_								
FOPENAIG		-								
FOPFINAS FOPFINSO		1								
FOPBNAS FOPBNAS FODBNAS FODB		450								
FORMAS FOPF13NSO FOPF9NSO FOPF9NSO FOPPSNSO REFS840B IRFS840B IRFSB40A IRFSB40A IRFSB40A IRFSB40A IRFSB40A IRFSB40A IRFSB40B IRFSB40A IRFSB40B IRFSB40A IRFSB40B FOPFSNSO FOPF		1 .00								
FOPENSO FOPE									98	
FOPPINSO	FQPF13N50	500	430				45	7.3	56	
FOPPINSO FOUNDO	FQP13N50		430				45	12.5	170	
FCI9NSO RFS840B RFS840B RFS840B RFS840B RFS840B RFS840A RFS840A RFS840A RFS840A RFS840B RFS840A RFS840B RFS840A RFS840B RFS8										
IRFS840A 850 411 4.6 44 44 44 18 18 18 18 18		_								
IRFS840A 850 57 4.6										
IRFIB40B 850		-								
RF1840A 850 577 8 134		-								
IRF840B 850		-								
RF840A 850 57 8 134										
RF840A* 850 20 8 147										
FQPF6N50			850				20	8	147	
FQB6N50 1300 177 5.5 98 FQB6N50 1300 177 5.5 98 IRF8830A 1500 33 3.1 38 IRF830A 1500 33 4.5 73 IRF830* 1500 22 4.5 75 FQPFN50 1800 13 3 39 FQP5N50 1800 13 4.5 85 FQISN50 1800 13 4.5 85 FQISN50 1800 13 4.5 85 IRF820B 2600 14 2.1 33 IRF820B 2600 14 2.5 49 FQPF4N50 2700 10 2.3 35 FQPAN50 2700 10 3.4 70 FQHAN50 2700 10 3.4 70 IRF820A 3000 19 2.5 49 IRF820A 3000 19 2.5 49	IRF840*		850				42	8	125	
FQI6N50 1300 177 5.5 98 1800 1500 333 3.1 38 38 38 38 38 38 38 3							!			
IRF830A		_								
IRF830A 1500 33 4.5 73 73 75 75 75 75 75 7		-								
RF830A 1500 33 34.5 73		-					<u> </u>			
RF830* 1500 1500 13 13 13 15 15 15 15 15		-								
FQPF5N50 1800 13 3 39 FQP5N50 1800 13 4.5 85 FQISN50 1800 13 4.5 85 IRF820B 2600 14 2.1 33 IRF820B 2600 14 2.5 49 IRF820B 2600 14 2.5 49 IRF820B 2600 10 2.3 35 FQPF4N50 2700 10 2.3 35 FQP4N50 2700 10 3.4 70 FQP4N50 2700 10 3.4 70 IRF820A 3000 19 2.1 33 IRF820A 3000 19 2.5 49 IRF820* 3000 19 2.5 49 IRF820* 3000 12 2.5 49 FQP2N50 5300 6 2.1 55 FQP2N50 5300 6 2.1 55		1								
FQP5N50										
RFS820B 2600 14 2.1 33 33 33 34 34 34 34 3										
RFI820B 2600 14 2.5 49										
RF820B	IRFS820B		2600				14	2.1	33	
FQPF4N50 2700 10 2.3 35 FQP4N50 2700 10 3.4 70 FQI4N50 2700 10 3.4 70 IRF820A 3000 19 2.1 33 IRF820A 3000 19 2.5 49 IRF820* 3000 19 2.5 49 IRF820* 3000 12 2.5 50 FQPF2N50 5300 6 1.3 20 FQP2N50 5300 6 2.1 55 FQI2N50 5300 6 2.1 55 SSS1N50B 5500 8.3 1.2 23 SSS1N50A 5500 8.3 1.5 36 SSP1N50A 5500 8.3 1.5 36 SSIN50B 5500 8.3 1.5 36 SSIN50B 5500 8.3 1.5 36 SSIN50A 5500 8.3 1.5 36		4								
FQP4N50 2700 10 3.4 70 FQI4N50 2700 10 3.4 70 IRFS820A 3000 19 2.1 33 IRF820A 3000 19 2.5 49 IRF820* 3000 19 2.5 49 IRF820* 3000 12 2.5 50 FQPF2N50 5300 6 1.3 20 FQP2N50 5300 6 2.1 55 FQI2N50 5300 6 2.1 55 SSS1N50B 5500 8.3 1.2 23 SSP1N50B 5500 8.3 1.5 36 SSIN50B 5500 8.3 1.5 36 SSIN50A 5500 8.3 1.5 36		-								
FQI4N50 2700 10 3.4 70 IRFS820A 3000 19 2.1 33 IRF820A 3000 19 2.5 49 IRF820* 3000 19 2.5 49 IRF820* 3000 12 2.5 50 FQPF2N50 5300 6 1.3 20 FQP2N50 5300 6 2.1 55 FQI2N50 5300 6 2.1 55 SSS1N50B 5500 8.3 1.2 23 SSS1N50A 5500 8.3 1.5 36 SSP1N50B 5500 8.3 1.5 36 SSIN50B 5500 8.3 1.5 36 SSIN50A 5500 11 1.5 36 SSIN50A 5500 4 1.4 40		-								
IRFS820A 3000 19 2.1 33 300 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 30		1								<u> </u>
IRFI820A 3000 19 2.5 49		-								
IRF820A 3000 19 2.5 49		1								
RF820* 3000 12 2.5 50		1								
FQPF2N50 5300 6 1.3 20 FQP2N50 5300 6 2.1 55 FQI2N50 5300 6 2.1 55 SSS1N50B 5500 8.3 1.2 23 SSS1N50A 5500 11 1.2 23 SSP1N50B 5500 8.3 1.5 36 SSP1N50A 5500 11 1.5 36 SSI1N50B 5500 8.3 1.5 36 SSI1N50A 5500 11 1.5 36 SSI1N50A 5500 4 1.4 40		1								
FQI2N50 5300 6 2.1 55 SSS1N50B 5500 8.3 1.2 23 SSS1N50A 5500 11 1.2 23 SSP1N50B 5500 8.3 1.5 36 SSP1N50A 5500 11 1.5 36 SSI1N50B 5500 8.3 1.5 36 SSI1N50A 5500 11 1.5 36 FQP1N50 9000 4 1.4 40]								
SSS1N50B 5500 8.3 1.2 23 SSS1N50A 5500 11 1.2 23 SSP1N50B 5500 8.3 1.5 36 SSP1N50A 5500 11 1.5 36 SSI1N50B 5500 8.3 1.5 36 SSI1N50A 5500 8.3 1.5 36 SSI1N50A 5500 11 1.5 36 FQP1N50 9000 4 1.4 40			5300				6			
SSS1N50A 5500 11 1.2 23 SSP1N50B 5500 8.3 1.5 36 SSP1N50A 5500 11 1.5 36 SSI1N50B 5500 8.3 1.5 36 SSI1N50A 5500 11 1.5 36 FQP1N50 9000 4 1.4 40		_	5300					2.1	55	
SSP1N50B 5500 8.3 1.5 36 SSP1N50A 5500 11 1.5 36 SSI1N50B 5500 8.3 1.5 36 SSI1N50A 5500 11 1.5 36 FQP1N50 9000 4 1.4 40		1								
SSP1N50A 5500 11 1.5 36 SSI1N50B 5500 8.3 1.5 36 SSI1N50A 5500 11 1.5 36 FQP1N50 9000 4 1.4 40		4								
SSI1N50B 5500 8.3 1.5 36 SSI1N50A 5500 11 1.5 36 FQP1N50 9000 4 1.4 40		-								
SSI1N50A 5500 11 1.5 36 FQP1N50 4 1.4 40		1								
FQP1N50 9000 4 1.4 40		1					 			
		1								
		1						0.9		



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^{*}These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.



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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V ₍	3S =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK N		(continue	d)				, ,		
FQPF12N60	600	700				42	5.8	55	
FQP12N60		700				42	10.5	180	
FQI12N60		700				42	10.5	180	
SSS10N60B		800				54	5.1	50	
SSS10N60A		800				74	5.1 9	50	
SSP10N60B SSP10N60A		800 800				54 74	9	156 156	
SSI10N60B		800				54	9	156	
FQPF7N60		1000				29	4.3	48	
FQP7N60		1000				29	7.4	142	
FQI7N60		1000				29	7.4	142	
SSS7N60B		1200				38	4	48	
SSS7N60A		1200				49	4	48	
SSP7N60B		1200				38	7	147	
SSP7N60A		1200				49	7	147	
SSI7N60B SSI7N60A		1200 1200				38 49	7	147 147	
IRFBC40*		1200				49	6.2	125	
FQPF6N60		1500				20	6.2	44	
FQP6N60		1500				20	6.2	130	
FQI6N60		1500				20	6.2	130	
FQPF5N60		2000				16	2.8	40	
FQP5N60		2000				16	5	120	
FQI5N60		2000				16	5	120	
FQPF4N60		2200				15	2.6	36	
FQP4N60		2200				15	4.4	106	
FQI4N60 SSS4N60B		2200 2500				15 22	4.4 2.3	106 33	
SSS4N60AS		2500				25	2.3	33	
SSP4N60B		2500				22	4	100	
SSP4N60AS		2500				25	4	100	
SSI4N60B		2500				22	4	100	
FQPF3N60		3600				10	2	34	
FQP3N60		3600				10	3	75	
FQI3N60		3600				10	3	75	
FQPF2N60		4700				9	1.6	28	
FQP2N60 FQI2N60		4700 4700				9	2.4	64 64	
SSS2N60B		5000				12.5	1.3	23	
SSS2N60A		5000				15	1.3	23	
SSP2N60B		5000				12.5	2	54	
SSP2N60A		5000				15	2	54	
SSI2N60B		5000				12.5	2	54	
SSI2N60A		5000				15	2	54	
FQP1N60		11500				5	1.2	40	
FQI1N60		11500				5	1.2	40	
FQPF1N60		11500				5	0.9	21	
SSS1N60B SSS1N60A		12000 12000				5.9 7.5	0.7 0.7	17 17	
SSP1N60B		12000				5.9	1	34	
SSP1N60A		12000				7.5	1	34	
SSI1N60B		12000				5.9	1	34	
SSI1N60A		12000				7.5	1	34	
FQPF6N70	700	1500				30	3.5	48	
FQP6N70		1500				30	6.2	142	
FQI6N70		1500				30	6.2	142	
SSS6N70A		1800				51	4	40	
SSP6N70A		1800				51	6	130	
SSI6N70A	900	1800				51	6	130	
FQPF7N80 FQP7N80	800	1500 1500				40 40	3.8 6.6	56 167	
FQI7N80		1500				40	6.6	167	
SSS7N80A		1800				67	4	50	
SSP7N80A		1800				67	7	160	
FQPF6N80		1950				31	3.3	51	

^{*}These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.



Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V ₍	3S =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK			d)						
FQP6N80	800	1950				31	5.8	158	
FQI6N80	-	1950				31	5.8	158	
SSS6N80A	-	2000				67	3.5	50	
SSP6N80A	-	2000 2200				67	6	160	
SSS5N80A	-	2200				52 52	5	45 140	
SSP5N80A SSI5N80A	-	2200				52	5	140	
FQPF5N80	1	2600				25	2.8	47	
FQP5N80	1	2600				25	4.8	140	
FQI5N80	1	2600				25	4.8	140	
SSS4N80AS	1	3000				40	2.8	40	
SSP4N80AS	1	3000				40	4.5	130	
FQPF4N80	1	3600				19	2.2	43	
FQP4N80	1	3600				19	3.9	130	
FQI4N80	1	3600				19	3.9	130	
SSS4N80A	1	4000				32	2.5	40	
SSP4N80A	1	4000				32	4	120	
SSS3N80A		4800				27	2	35	
SSP3N80A		4800				27	3	100	
FQPF3N80		5000				15	1.8	39	
FQP3N80		5000				15	3	107	
FQI3N80		5000				15	3	107	
SSI2N80A		6000				22	2	80	
FQPF2N80		6300				12	1.5	35	
FQP2N80		6300				12	2.4	85	
FQI2N80		6300				12	2.4	85	
FQPF6N90	900	1900				40	3.4	56	
FQP6N90	1	1900				40	5.8	167	
FQI6N90	1	1900				40	5.8	167	
FQPF5N90	-	2300				31	3	51	
SSS6N90A	-	2300				68	3.5	50	
FQP5N90	-	2300				31	5.4	158	
FQI5N90	-	2300				31	5.4	158	
SSP6N90A	-	2300				68	6	160	
SSS5N90A	-	2900				54	3	45	
SSP5N90A	-	2900				54 24	5 2.5	140 47	
FQPF4N90	-	3100 3100				24	4.2	140	
FQP4N90	-					24	4.2	140	
FQI4N90 SSS4N90AS	1	3100 3700				42	2.8	40	
SSP4N90AS	1	3700				42	4.5	130	
FQPF3N90	1	4250				20	2.1	43	
FQP3N90	1	4250				20	3.6	130	
FQI3N90	1	4250				20	3.6	130	
SSP4N90A	1	5000				35	4	120	
FQPF2NA90	1	5800				15	1.7	39	
FQP2NA90	1	5800				15	2.8	107	
FQI2NA90	1	5800				15	2.8	107	
SSS3N90A		6200				28	2	35	
SSI3N90A		6200				28	3	100	
SSS2N90A		7000				24	1.5	30	
SSP2N90A		7000				24	2	80	
FQPF2N90		7200				12	1.4	35	
FQP2N90		7200				12	2.2	85	
FQI2N90		7200				12	2.2	85	
RFP4N100	1000	3500				55	4.3	150	
P-Channel									
FDP6021P	-20		30	40	65	20	28	37	
NDP6020P	1		50	70@2.7			24	60	
FDP4020P			80	110			16	37.5	
FQPF47P06	-60	26				84	30	62	
FQP47P06	4	26				84	47	160	
FQI47P06	4	26				84	47	160	
FQPF27P06		70				33	17	47	



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Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PAK F		(continue				63	()	()	
FQI27P06	-60	70	.,			33	27	120	
FQPF17P06		120				21	12	39	
FQP17P06	1	120				21	17	79	
FQI17P06		120				21	17	79	
SFS9Z34		140				30	12	36	
SFP9Z34		140				30	18	82	
SFI9Z34		140				30	18	82	
FQPF11P06		175				13	8.6	30	
FQP11P06		175				13	11.4	53	
FQI11P06		175				13	11.4	53	
MTP2955V		200					12	60	
SFS9Z24		280				15	7.5	29	
SFP9Z24		280				15	9.7	49	
SFI9Z24		280				15	9.7	49	
SFS2955		300				15	7.3	29	
SFP2955		300				15	9.4	49	
SFI2955		300				15	9.4	49	
FQPF7P06		410				6.3	5.3	24	
FQP7P06	-	410				6.3	7	45	
FQI7P06		410				6.3	7	45	
SFS9Z14		500				9	5.3	24	
SFP9Z14		500				9	6.7	38	
SFI9Z14	400	500				9	6.7	38	
FQPF22P10	-100	125				40	13.2	45	
FQP22P10	-	125				40 40	22 22	125 125	
FQI22P10 FQPF17P10	-	125 190				30	10.5	41	
FQP17P10	•	190				30	16.5	100	
FQI17P10		190				30	16.5	100	
SFS9540	-	200				43	10.7	53	
SFP9540		200				43	17	132	
SFI9540		200				43	17	132	
IRF9540*	•	200				70	19	150	
FQPF12P10		290				21	8.2	38	
FQP12P10		290				21	11.5	75	
FQI12P10	1	290				21	11.5	75	
SFS9530		300				30	8	39	
SFP9530		300				30	10.5	66	
SFI9530		300				30	10.5	66	
IRF9530*		300				25	12	75	
FQPF8P10		530				12	5.3	28	
FQP8P10		530				12	8	65	
FQI8P10		530				12	8	65	
SFS9520]	600				16	4.6	29	
SFP9520		600				16	6	49	
SFI9520		600				16	6	49	
IRF9520*		600				16	6	40	
FQPF5P10		1050				6.3	2.9	23	
FQP5P10		1050				6.3	4.5	40	
FQI5P10		1050				6.3	4.5	40	
SFS9510		1200				9	2.5	16	
SFP9510		1200				9	3.6	32	
SFI9510		1200				9	3.6	32	
IRF9510*		1200				8.5	3	20	
FQPF12P20	-200	470				31	7.3	50	
FQP12P20		470				31	11.5	120	
FQI12P20	-	470			-	31	11.5	120	
SFS9640		500				46	6.2	40	
SFP9640		500				46	11	123	
SFI9640	-	500			-	46	11	123	
IRF9640*	-	500				70	11	125	
FQPF7P20	-	690				19	5.2	45	
FQP7P20		690				19	7.3	90	
FQI7P20		690				19	7.3	90	
SFS9630		800			1	29	4.4	33	<u> </u>

^{*}These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.



Part	V _{DS}	RDS	S(ON) Max	κ. (mΩ) @ V ₍	GS =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-220 / I ² PA	(P-Channel	(continued	d)				ı		1
SFP9630	-200	800				29	6.5	70	
SFI9630	7	800				29	6.5	70	
IRF9630*		800				31	6.5	75	
FQPF5P20	7	1400				10	3.4	38	
FQP5P20		1400				10	4.8	75	
FQI5P20		1400				10	4.8	75	
SFS9620		1500				15	3	28	
SFP9620		1500				15	3.5	38	
SFI9620		1500				15	3.5	38	
IRF9620*		1500				16	3.5	40	
FQPF3P20		2700				6	2.2	32	
FQP3P20		2700				6	2.8	52	
FQI3P20	\dashv	2700				6	2.8	52	
SFS9610	\dashv	3000				9	1.4	13	
SFP9610	\dashv	3000				9	1.4	20	
SFI9610	\dashv	3000				9	1.8	20	
	-250					29	6	50	
FQPF9P25	-250	620							
FQP9P25	\dashv	620				29	9.4	120	
FQI9P25	\dashv	620				29	9.4	120	
SFS9644	-	800				45	4.9	40	
SFP9644	_	800				45	8.6	123	
SFI9644	4	800				45	8.6	123	
FQPF6P25	_	1100				21	4.2	45	
FQP6P25	4	1100				21	6	90	
FQI6P25		1100				21	6	90	
SFS9634	_	1300				29	3.4	33	
SFP9634	_	1300				29	5	70	
SFI9634		1300				29	5	70	
FQPF4P25		2100				10	2.8	38	
FQP4P25		2100				10	4	75	
FQI4P25		2100				10	4	75	
SFS9624		2400				16	2.4	28	
SFP9624		2400				16	2.7	38	
SFI9624		2400				16	2.7	38	
SFS9614		4000				9	1.3	13	
SFP9614		4000				9	1.6	20	
SFI9614		4000				9	1.6	20	
FQPF2P25		4000				6.5	1.8	32	
FQP2P25		4000				6.5	2.3	52	
FQI2P25		4000				6.5	2.3	52	
FQPF4P40	-400	3100				18	2.4	39	
FQP4P40		3100				18	3.5	85	
FQI4P40		3100				18	3.5	85	
FQPF2P40		6500				10	1.3	28	
FQP2P40	7	6500				10	2	63	
FQI2P40		6500				10	2	63	
FQPF3P50	-500	4900				18	1.9	39	
FQP3P50	7	4900				18	2.7	85	
FQI3P50	┪	4900				18	2.7	85	
FQPF1P50	7	10500				11	1	28	
FQP1P50	7	10500				11	1.5	63	
FQI1P50	\dashv	10500				11	1.5	63	
1 3(111 30		10300		1	<u> </u>	111	1.0	1 00	l

		<u> </u>					
TO-247/TO-3P/P	WR-247 N	-Channel					
RFG75N05E	50	8		170	75	240	
HUF75345G3	55	7		125	75	325	
HUF75344G3		8		90	75	285	
HUF75343G3		9		92	75	270	
HUF75339G3		12		60	75	200	
HUF75332G3		19		40	60	145	
HUF75329G3		26		35	49	128	
FQA170N06	60	5.6		220	170	375	
FQAF85N06		10		86	67	100	
FQA85N06		10		86	100	214	



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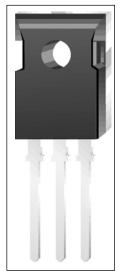
TO-247



PWR-247



*These Industry Standard IRF devices can be specified by adding the suffix R494x to the part number when ordering. Example: IRF840AR4944. The suffix will not appear in the brand.



PWR-247



Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-247/TO-3P/P	1	Channel (G3	()	, ,	
FQAF65N06	60	16	ontinaca)			48	49	86	
FQA65N06		16				48	72	183	
FQA160N08	80	7				220	160	375	
FQAF90N08		16				84	56	100	
FQA90N08		16				84	90	214	
FQAF70N08		17				75	53	90	
FQA70N08		17				75	77	190	
FQAF58N08		24				50	44	85	
FQA58N08 FQAF44N08		24 34				50 38	64 35.6	180 83	
FQAF44N08		34				38	49.8	163	
HUF75652G3	100	8				211	75	515	
FQA140N10	1	10				220	140	375	
SSF70N10A		23				151	44	120	
SSH70N10A		23				151	70	300	
FQAF70N10		25				85	45	100	
FQA70N10		25				85	70	214	
HUF75639G3]	25				57	56	200	
FQAF55N10	1	26				75	41.9	90	
FQA55N10	1	26				75	61	190	
IRFP150N*		30				48	44	155	
FQAF44N10		39				48	33	85	
FQA44N10	-	39				48	48	180	
IRFS150A		40 40				75 75	31 43	100 193	
IRFP150A IRFP140N*	-	40				35	33	120	
IRFS140A		52				60	23	72	
FQAF33N10L		52	55			30	25.8	83	
FQAF33N10	1	52				38	25.8	83	
IRFP140A		52				60	31	131	
FQA33N10L		52	55			30	36	163	
FQA33N10		52				38	36	163	
IRFP150*		55				70	40	180	
IRFP140*		77				38	27	180	
HUF75852G3	150	16				215	75	500	
FQA90N15		18				220	90	375	
FQAF70N15 FQA70N15	-	28 28				135 135	70	130 330	
FQAF46N15		42				85	33.5	113	
FQA46N15		42				85	50	250	
SFH154		75				90	34	204	
FQAF28N15	1	90				40	22	102	
FQA28N15	<u></u>	90				40	33	227	
FQA65N20	200	32				170	65	310	
FQAF48N20]	50				100	30	108	
FQA48N20]	50				100	48	280	
SSF45N20B		65				133	26.4	100	
SSF45N20A	-	65				117	26.4	100	
SSH45N20B	-	65			1	133	45	278	
SSH45N20A	-	65			-	117	45	278	
HUF75945G3 FQAF34N20L	1	71 75	80		1	118 55	38 23	310 95	
FQAF34N20L FQAF34N20	1	75 75	00			60	23	95	
FQA34N20L	†	75	80			55	34	210	
FQA34N20	†	75	30			60	34	210	
IRFP250N*	1	75				114	30	214	
IRFS250B	1	85				95	21.3	90	
IRFS250A]	85				95	21.3	90	
IRFP250B		85				95	32	204	
IRFP250A]	85				95	32	204	
IF4E33N20S]	85				120	33		
IRFP250*		85				79	33	180	
FQAF19N20L	-	140	150			27	16	85	
FQA19N20L	-	140	150		-	27	25	190	
FQAF19N20	<u> </u>	150			<u> </u>	31	15	85	

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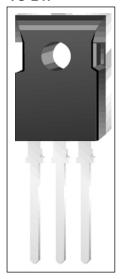
Part	V _{DS}	R _D	S(ON) Max.	(mΩ) @ V	GS =	Q _g (nC) @	ID	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-247/TO-3P/P		Channel (continued)				, ,	, ,	I
FQA19N20	200	150				31	23	190	
IRFS240B		180				45	12.8	73	
IRFS240A		180				44	12.8	73	
IRFP240B		180				45	20	180	
IRFP240A		180				44	20	180	
IRFP240*		180				43	20	150	
FQA55N25	250	40				140	55	310	
FQAF40N25		70				85	24	108	
FQA40N25		70				85	40	280	
FQAF27N25		110				50	19	95	
FQA27N25		110				50	27	210	
IRFS254B		140				95	16	90	
IRFS254A		140				88	16	90	
IRFP254B		140				95	25	221	
IRFP254A		140				88	25	221	
FQAF16N25		230				27	12.4	85	
FQA16N25		230				27	18.5	190	
IRFS244B		280				47	10.2	73	
IRFS244A		280				46	10.2	73	
IRFP244B		280				47	16	180	
IRFP244A		280				46	16	180	
FQA44N30	300	69				120	43.5	310	
FQA38N30		85				90	38.4	290	
FQAF26N30		135				60	19	110	
FQA26N30		135				60	25.5	200	
FQAF22N30		160				47	16	100	
FQA22N30		160				47	22	190	
FQAF14N30		290				30	11.4	90	
FQA14N30		290				30	15	160	
FQA35N40	400	105				110	35	310	
FQA30N40		140				90	30	290	
SSF25N40A		200				140	14.3	100	
SSH25N40A		200				140	25 14	278	
FQAF20N40 FQA20N40		220				60 60	19.5	110 200	
FQAF17N40		270				45	12.2	100	
FQA17N40		270				45	17.2	190	
IRFS350A		300				101	11.5	92	
IRFP350A		300				101	17	202	
FQAF11N40		480				27	8.8	90	
FQA11N40		480				27	11.8	160	
IRFS340B		540				41	8	85	
IRFP340B		540				41	11	162	
IRFS340A		550				58	8	85	
IRFP340A	1	550				58	11	162	
RF4E20N50S	500	85				79	20	180	
FQA28N50F	1	160				110	28.4	310	
FQA28N50	1	160				110	28.4	310	
FQA24N50F	1	200				90	24	290	
FQA24N50	1	200				90	24	290	
SSH22N50A	1	250				182	22	278	
IRFP460A*	1	270				56	20	280	
IRFP460*		270				120	20	250	
FQAF16N50		320				17	11.3	110	
FQA16N50		320				17	16	200	
IRFS450B		400				87	9.6	96	
IRFS450A		400				121	9.6	96	
IRFP450B		400				87	14	205	
IRFP450A		400				121	14	205	
IRFP450A*		400				33	14	190	
IRFP450*		400				82	14	180	
FQAF13N50		430				45	9.6	100	
FQA13N50]	430				45	13.4	190	
FQAF9N50		730				28	7.2	90	
FQA9N50		730		_		28	9.6	160	



PWR-247



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PWR-247



Part	V _{DS}	R _D	S(ON) Max	. (mΩ) @ V ₍	3S =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-247/TO-3P/P		-Channel (d	continued)			00	. ,	, ,	
IRFS440B	500	850				41	6.2	85	
IRFS440A		850				57	6.2	85	
IRFP440B		850				41	8.5	162	
IRFP440A	1	850				57	8.5	160	
IRFP440*		850				42	8.8	150	
FQA24N60	600	240				110	23.5	310	
FQAF19N60	-	380				70	11.2	120	
FQA19N60	-	380 450				70 128	18.5 9	300 100	
SSF17N60A FQAF12N60	1	700				42	7.8	100	
FQA12N60	1	700				42	12	240	
SSF10N60B	1	800				54	6.9	90	
SSF10N60A	1	800				74	6.9	90	
SSH10N60B	1	800				54	10	193	
SSH10N60A	1	800				74	10	193	
FQAF7N60		1000				29	5.7	83	
FQA7N60		1000				29	7.7	152	
SSF7N60B	1	1200				38	5.4	86	
SSF7N60A	4	1200				49	5.4	85	
SSH7N60B	4	1200				38	7.3	160	
SSH7N60A	700	1200				49	7.3	160	
FQAF15N70	700	560				70	9.5	120	
FQA15N70 FQAF6N70	1	560 1500				70 30	15	300 83	
FQAF6N70 FQA6N70	1	1500				30	4.7 6.4	152	
SSF6N70A	1	1800				51	5	85	
SSH6N70A	1	1800				51	6	140	
FQAF13N80	800	750				68	8	120	
FQA13N80		750				68	12.6	300	
SSF10N80A	1	950				125	6.5	100	
SSH10N80A		950				125	10	280	
FQAF10N80		1050				55	6.7	113	
FQA10N80	1	1050				55	9.8	240	
FQAF8N80		1200				44	5.9	107	
FQA8N80		1200				44	8.4	220	
SSF9N80A	-	1300				93	6	95	
SSH9N80A	-	1300				93	9	240	
FQAF7N80 SSF8N80A	-	1500 1500				40 93	5 5.5	96 95	
FQA7N80	1	1500				40	7.2	198	
SSH8N80A	1	1500				93	8	240	
SSH7N80A	1	1800				67	7	200	
FQAF6N80	1	1950				31	4.4	90	
FQA6N80		1950				31	6.3	185	
SSH6N80AS		2000				67	6	200	
FQAF11N90	900	960				72	7.2	120	
FQA11N90	4	960				72	11.4	300	
SSF10N90A	4	1200				127	6.5	100	
SSH10N90A	-	1200				127	10	280	
FQAF9N90	-	1300				55	5.9	113	
FQA9N90 SSH9N90A	-	1300 1400				55 127	8.6 9	240 280	
FQAF7N90	1	1550				45	5.2	107	
FQA7N90	1	1550				45	7.4	220	
SSF8N90A	1	1600				94	5.5	95	
SSH8N90A	1	1600				94	8	240	
SSF7N90A	1	1800				94	5	95	
SSH7N90A]	1800				94	7	240	
FQAF6N90		1900				40	4.5	96	
FQA6N90		1900				40	6.4	198	
FQAF5N90	1	2300				31	4.1	90	
FQA5N90	4	2300				31	5.8	185	
SSH6N90A	4	2300				68	6	200	
SSH5N90A		2900				54	5	160	

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Part	V _{DS}	R _D	S(ON) Max	(mΩ) @ V	GS =	Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
TO-247/TO-3P/F	WR-247 P-	-Channel							
FQAF47P06	-60	26				84	38	100	
FQA47P06		26				84	55	214	
FQAF22P10	-100	125				40	16.6	70	
FQA22P10		125				40	24	150	
IRFP9150*	1	150				82	25	150	
FQAF17P10	1	190				30	12.4	56	
FQA17P10	1	190				30	18	120	
SFF9140	1	200				43	13	80	
SFH9140		200				43	19	166	
IRFP9140*		200				37	19	125	
SFH9154	-150	200				100	18	204	
FQAF12P20	-200	470				31	11.5	70	
FQA12P20		470				31	12.6	150	
SFF9240		500				46	7.6	60	
SFH9240	1	500				46	11	126	
IRFP9240*	1	500				38	12	150	
FQAF9P25	-250	620				29	7.1	70	
FQA9P25		620				29	10.5	150	
SFF9244		800				45	6	60	
SFH9244		800				45	8.7	126	



PWR-247



TO-264



TO-264 N-Channel											
FQL50N40	400	75				160	50	460			
FQL40N50F	500	110				155	40	460			
FQL40N50		110				155	40	460			

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Power MOSFET Special Functions

	Integrated Load Switches													
Part V_{IN} $R_{DS(ON)}$ Max. $(m\Omega)$ @ V_{IN} = I_L (A) @ $V_{(DROP)}$ = 0.2V														
Number	(Max)	12V	12V 5V 2.5V 1.8V V _{IN} = 12V V _{IN} = 5V V _{IN} = 2.											
SuperSOT-8														
FDR8321L	8		7	10.5			2.9	2.0						
FDR8521L	20	7	11.5			2.9	1.8							

SuperSOT-6							
FDC6331L	8		5.5	7		2.8	2.5
FDC6329L			7	10.5		2.8	1.9
FDC6325L			13	18		1.5	1.0
FDC6323L			20	30		1.0	0.67
FDC6330L	20	8	12.5		2.5	1.6	
FDC6326L		12.5	20		1.5	1.0	
FDC6324L		20	30		1.0	0.67	
SI3861DV	25		55	70			

SC70-6							
FDG6323L	8		55	75		0.36	0.27
FDG6324L	20	55	75		0.36	0.27	

Part	v _{DS}	R _{DS(ON)} Max. (mΩ) @ V _{GS} =				Q _g (nC) @	I _D	PD	Configuration
Number	(V)	10V	4.5V	2.5V	1.8V	V _{GS} = 5V	(A)	(W)	
SC70-6 N-Channel									
FDG6331L	-25		260	330	450		0.9	0.3	Dual

MOSFET & Schottky Combos										
MOSFET							Schottky Diode			
Part	V _{DS}	I _D	R _{DS(ON)} Max.	$(m\Omega)$ @ V_{GS} =	Q _g (nC) @	٧ _F	@ I _F	PD		
Number	(V)	(A)	10V	4.5V	V _{GS} = 5V	(V)	(A)	(W)		
SO-8 N-Channel										
FDFS6N303	30	6	4	6	6	0.42	3	2.5		
P-Channel										
FDFS2P102	-20	3.3	12.5	20	3.5	0.58	2	2		
FDFS2P102A		3.3	12.5	20	2.1	0.58	2	2		
FDFS2P106A	-60	3	11	14	15	0.58	2	2		

TSSOP-8 P-Channel									
FDW6923	-20	3.5	5	9	10	0.5	2	2	

NOTES



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