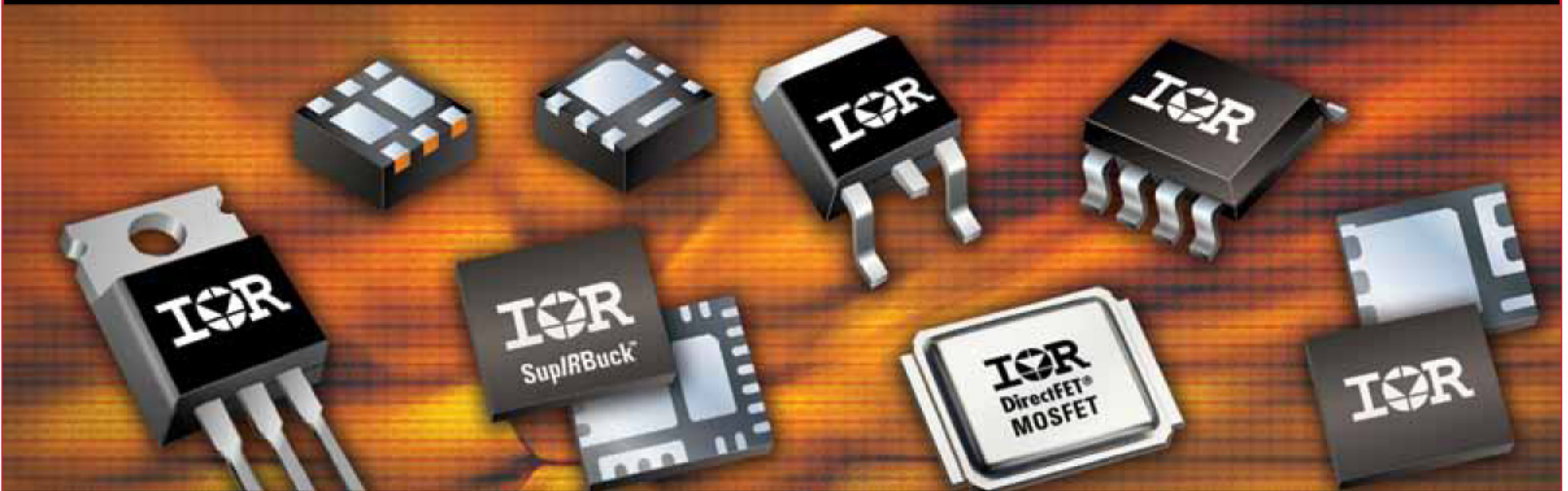


Benchmark MOSFETs Product Selection Guide



For a complete list of IR MOSFETs go to www.irf.com/product-info/hexfet

International
IR Rectifier
THE POWER MANAGEMENT LEADER

Benchmark MOSFETs | Selection Guide

Broad Portfolio of MOSFETs Targeting Multiple Market Segments

Key Differentiators

- Industry brand leader in MOSFETs
- Leading performance MOSFETs
- Industry reputation for quality
- Broad product portfolio
- Widest range of packages up to 250V

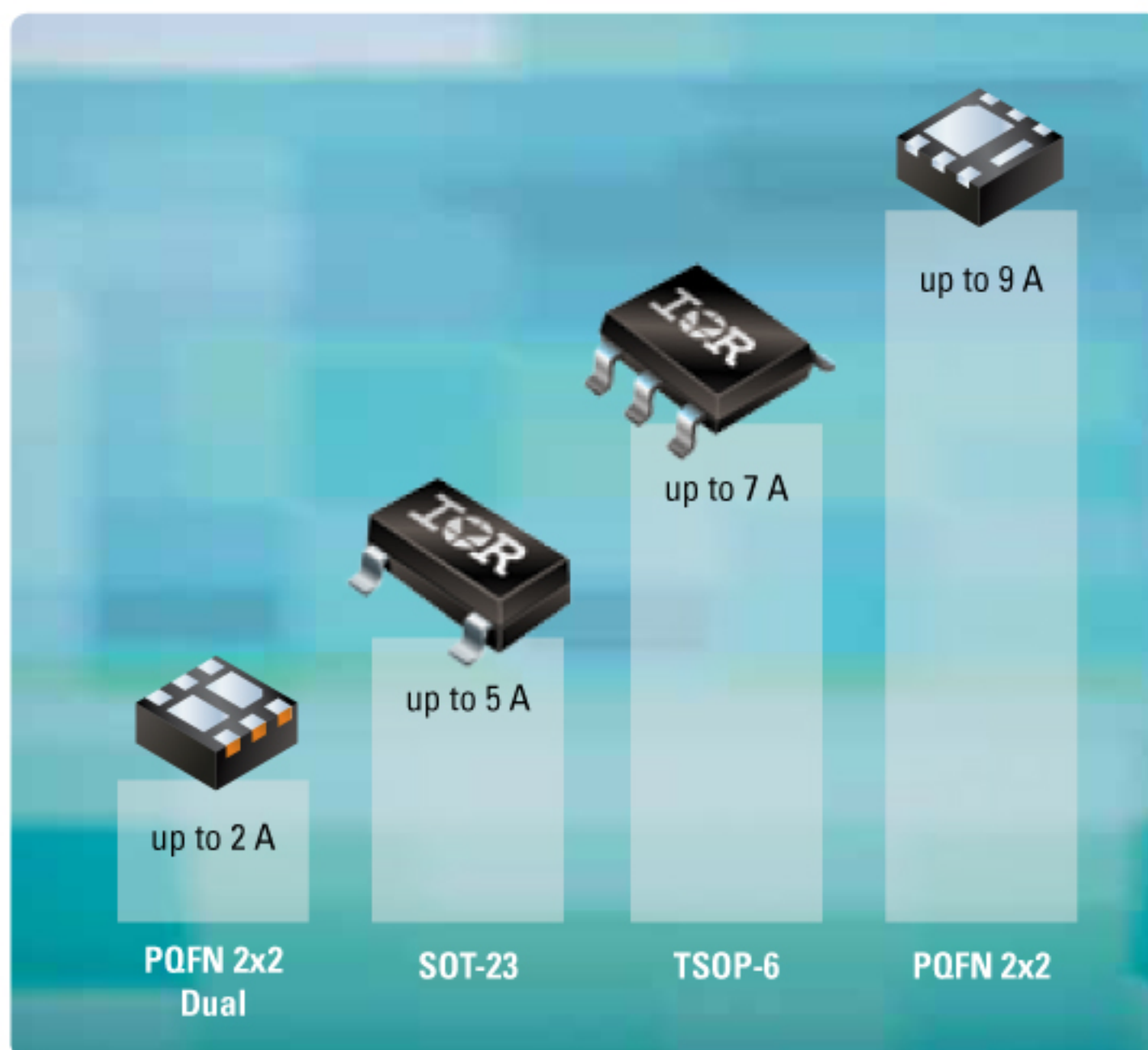
Key Products

- Discrete HEXFET® MOSFETs
- Dual HEXFET® MOSFETs
- FETKY®



For a full list of the automotive MOSFETs please visit www.irf.com

Small Power MOSFETs



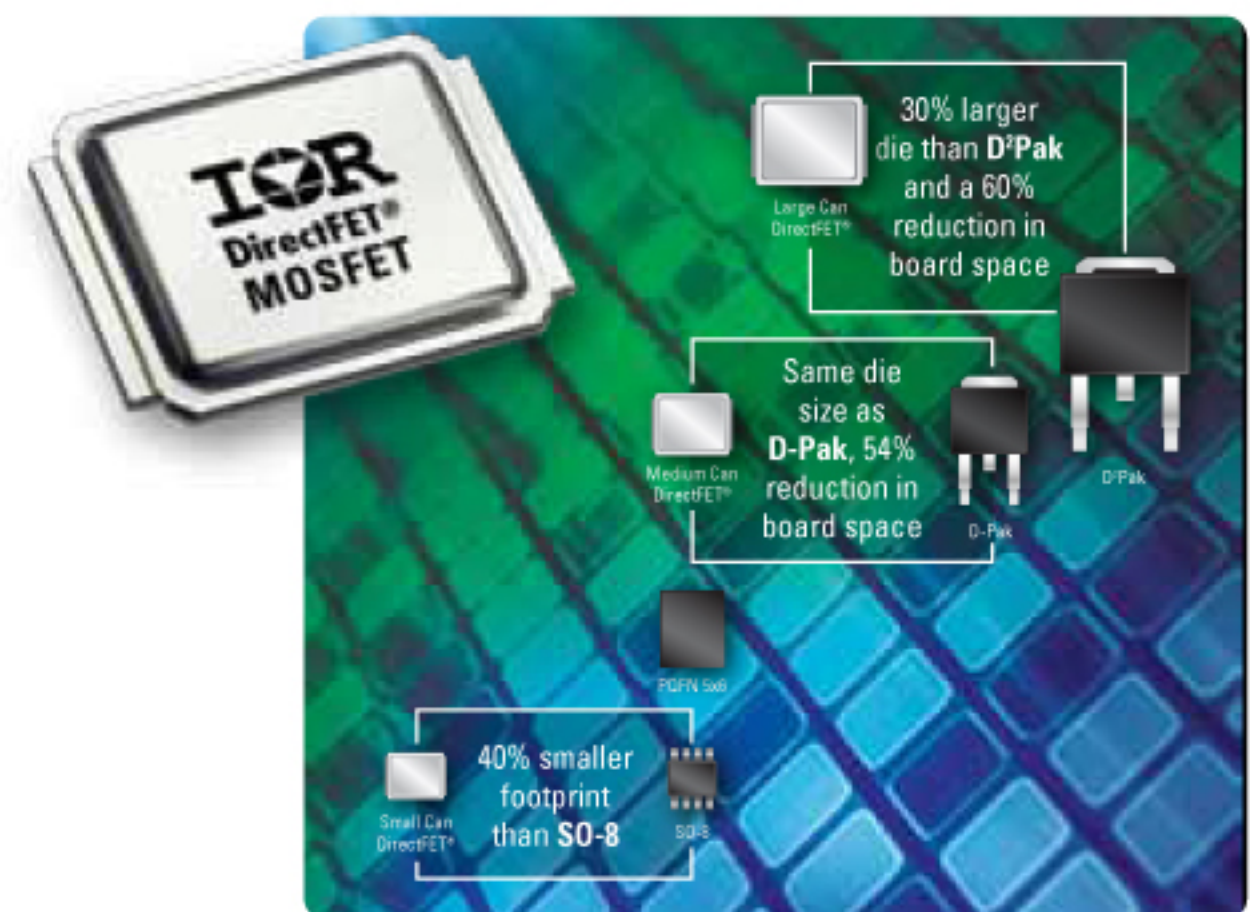
FEATURES

- Available in both N & P Channel for simple design
- Latest silicon technology offering low $R_{DS(on)}$ for increased battery life
- 2.5V drive capable available for 1-cell Li-Ion Battery Applications
- PQFN package offers high power density reducing system size

APPLICATIONS

- DC Load Switch
- Battery Protection
- DC-DC Converter
- Screen Backlight Boost Converter

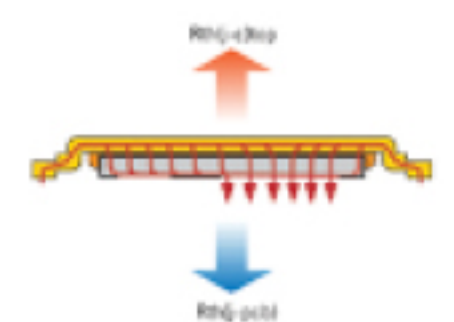
DirectFET®



International Rectifier's DirectFET® power package is a breakthrough surface-mount power MOSFET packaging technology designed for efficient topside cooling in combination with improved bottom-side cooling, the new package can be cooled on both sides to cut part count by up to 60%, and board space by as much as 50% compared to devices in standard or enhanced SO-8 packages.

THE IR ADVANTAGE

- Increases current density
- Cuts MOSFET part count by 60%
- Reduces PCB space by 50%
- Up to 50°C lower operating temperature increases reliability
- Lower total system cost
- Ultra low package resistance and inductance
- Industry lowest On-Resistance
- Compatible with existing surface mount techniques



Double-sided cooling for superior thermal performance

For additional information on International Rectifier's MOSFETs and other products call +1.800.981.8699 or +49.6102.884.311 or visit us at www.irf.com

Power MOSFETs

Voltage (V)	R _{DS(on)} max (mΩ)			I _D (A)		Qg Typ (nC)	DirectFET		POFN		SO-8	D-PAK	D ² PAK	D ² PAK-7	TO-220	TO-247
	10V _{GS}	4.5V _{GS}	2.5V _{GS}	T _C = 25°C	T _A = 25°C		Part Number	Footprint	Part Number	Footprint						
-30	2.9	4.8	0	-160	-22	130	IRF9383M	MC								
	4.6	6.8	0	0	-20	58			IRFH9310	5 x 6 B	IRF9310					
	6.6	10.2	0	0	-16	31					IRF9317					
	7.2	11.2	0	0	-15	34					IRF9321					
	11.9	0	0	0	-12	18					IRF9388					
	11.9	19.7	0	0	-12	18					IRF9328					
	14.6	0	0	-24	-11	16			IRFHM9331	3 x 3						
	17.5	0	0	0	-9.8	14					IRF9392					
	17.5	28.1	0	0	-9.8	14					IRF9332					
	19.4	0	0	0	-9.2	14					IRF9393					
	19.4	32.5	0	0	-9.2	14					IRF9333					
	59	110	0	0	-5.4	4.7					IRF9335					
20	0	1.2	1.5	100	45	155			IRFH6200	5 x 6 B						
	0	2.45	2.75	0	27	130					IRF6201					
	0	2.5	3.5	40	26	52			IRLHM620	3.3 x 3.3						
	1.8	2.5	0	150	32	47	IRF6691	MT								
	0	4	5.2	100	0	48					IRLR6225					
	4.2	5.7	0	120	20	21					IRF3717	IRLR3717				
	5.7	7.8	0	93	0	18					IRFR3711Z	IRF3711ZS			IRF3711Z	
	7.9	11.1	0	67	0	8.7						IRF3704ZS			IRF3704Z	
	8.4	11.4	0	60	0	9.3					IRFR3704Z					
	11	15.5	0	49	0	7.2					IRLR3715Z	IRL3715ZS			IRL3715Z	
	15	25	0	37	0	4.7					IRLR3714Z	IRL3714ZS			IRL3714Z	
24	1	0	0	429	0	180								IRF1324S-7P		
	1.5	0	0	353	0	160							IRF1324S		IRF1324	
25	0.7	1.4	0	270	61	0	IRF6718L2	L6								
	1.1	1.6	0	213	35	35	IRF6898M	MX								
	1.15	1.75	0	0	45	52			IRFH5250	5 x 6 B						
	1.25	2.1	0	220	38	46	IRF6717M	MX								
	1.3	2.1	0	197	37	50	IRF6798M	MX								
	1.4	2.2	0	0	40	39			IRFH5250D	5 x 6 B						
	1.4	2.4	0	210	36	45	IRF6797M	MX								
	1.6	2.6	0	180	39	39	IRF6716M	MX								
	1.6	2.7	0	180	34	40	IRF6715M	MX								
	1.7	3	0	200	32	31	IRF6794M	MX								
	1.8	3.2	0	160	32	35	IRF6795M	MX								
	2.1	3.4	0	166	29	29	IRF6714M	MX								
	2.7	3.7	0	0	25	35					IRF8252					
	3	4.6	0	95	22	21	IRF6713S	SQ								
	3.8	6.5	0	63	17	13	IRF6706S2	S1								
	3.8	6.5	0	84	19	13	IRF6711S	SQ								
	4.9	8.7	0	68	17	13	IRF6712S	SQ								
	5.2	7.3	0	50	16	7.4	IRF6810S	S1								
	5.7	8.5	0	81	0	10						IRLR8256				
	5.9	11.9	0	37	12	8.8	IRF6710S2	S1								
6	10.9	0	51	15	7			IRFH5255	5 x 6 B							
7.8	13.5	0	39	12	8.1	IRF6709S2	S1									
8.7	12.9	0	57	0	6.8						IRLR8259					
30	1.4	2.1	0	100	40	50			IRFH5300	5 x 6 B						
	1.7	2.4	0	180	32	49	IRF6727M	MX								
	1.7	2.4	0	180	32	51	IRF6726M	MT								
	1.8	2.7	0	190	31	35	IRF8302M	MX								
	1.8	2.7	0	190	31	42	IRF6729M	MX								
	1.85	2.9	0	100	35	37			IRFH5301	5 x 6 B						
	1.95	2.6	0	260	0	57									IRLB3813	
	2.1	3.5	0	100	32	29			IRFH5302	5 x 6 B						
	2.2	3.2	0	170	28	28	IRF8304M	MX								
	2.2	3.2	0	170	28	36	IRF6725M	MX								
	2.4	0	0	260	0	160							IRF2903ZS		IRF2903Z	
	2.5	3.5	0	150	27	28	IRF8308M	MX								
	2.5	3.5	0	150	27	33	IRF6724M	MX								
	0	3.5	4.5	40	21	41			IRLHM630	3.3 x 3.3						
	2.5	3.6	0	140	23	28	IRF6728M	MX								
	2.5	3.6	0	140	23	25	IRF8306M	MX								
	2.5	3.7	0	100	29	26			IRFH5302D	5 x 6 B						
	2.8	3.8	0	0	24	44					IRF8788					
	3.1	3.9	0	160	0	39						IRLR8743				
	3.1	4.6	0	120	27	41			IRFH8318	5 x 6 E						
	3.2	4.2	0	150	0	36									IRLB8743	
	3.3	4.5	0	0	21	30					IRF7862					
	3.5	5.1	0	0	21	20					IRF8734					
3.8	4.5	0	150	0	32							IRL7833S				
3.8	6	0	40	21	31			IRFHM830	3.3 x 3.3							
4.1	6.3	0	90	23	14			IRFH8324	5 x 6 E							

Power MOSFETs, continued

Voltage (V)	R _{DS(on)} max (mΩ)			I _D (A)		Q _g Typ (nC)	DirectFET		PQFN		SO-8	D-PAK	D ² PAK	D ² PAK-7	TO-220	TO-247
	10V _{GS}	4.5V _{GS}	2.5V _{GS}	T _C =25°C	T _A =25°C		Part Number	Footprint	Part Number	Footprint						
	I _D (A)		Q _g (nC)													
30	4.2	6.8	0	82	23	15			IRFH5303	5 x 6 B						
	4.3	7.1	0	40	20	13			IRFHM830D	3.3 x 3.3						
	4.5	6.8	0	0	22	16			IRFH5304	5 x 6 B						
	4.8	6.8	0	92	0	15									IRLB8748	
	4.8	6.8	0	0	18	17					IRF8736					
	5	7.2	0	82	21	15			IRFH8325	5 x 6 E						
	5.8	8	0	86	0	15						IRLR8726				
	6	7.1	0	105	0	23						IRLR8113	IRL8113S		IRL8113	
	6	7.4	0	0	16.6	24					IRF8113					
	6.3	7.8	0	87	0	17							IRF3709ZS		IRF3709Z	
	6.6	9.9	0	56	17	9.3			IRFH8330	5 x 6 E						
	6.8	8.7	0	0	16	18					IRF7805Z					
	7.1	11.8	0	42	16	9.6			IRFH3702	3 x 3						
	7.3	10.9	0	60	14	9.2	IRF8327S	SQ								
	7.3	10.9	0	60	14	11	IRF6721S	SQ								
	7.7	10.3	0	58	13	11	IRF6722S	ST								
	7.7	10.8	0	56	13	11	IRF6722M	MP								
	7.8	12.6	0	47	14	7.3			IRFHM831	3.3 x 3.3						
	8	12.8	0	35	11	7.9	IRF6720S2	S1								
	8.1	13.3	0	45	15	7.8			IRFH5306	5 x 6 B						
	8.4	11.8	0	65	0	8.5						IRLR8721				
	8.5	12.5	0	0	14	8.3					IRF8721					
	8.7	13	0	0	14	8.1					IRF8714					
	8.7	16	0	62	0	7.6									IRLB8721	
	8.9	11.9	0	58	0	10						IRLR8729				
	8.9	14.3	0	36	13	6.6	IRF6708S2	S1								
	9	13.5	0	44	14	7.1			IRFH8334	5 x 6 E						
	0	14.6	19	0	9.9	11					IRL6342					
	9.5	12.5	0	59	0	9.7							IRF3707ZS			
	11.9	17.5	0	0	11	6.2					IRF8707					
12.4	17.9	0	29	12	5.4			IRFH3707	3 x 3							
12.8	18.9	0	35	12	4.7			IRFH8337	5 x 6 E							
13.8	18.2	0	43	0	7						IRLR7807Z					
40	1	0	0	270	46	220	IRF7739L2	L8								
	1.25	0	0	400	0	160							IRFS3004-7P			
	1.4	1.7	0	380	0	120							IRLS3034-7P			
	1.6	0	0	320	0	170							IRF2804S-7P			
	1.7	2	0	327	0	108							IRLS3034	IRLB3034	IRLP3034	
	1.7	0	0	350	0	220										IRFP4004
	1.75	0	0	340	0	160							IRFS3004	IRFB3004		
	2.3	0	0	280	0	160							IRF2804S	IRF2804		
	2.4	3.2	0	100	29	82			IRLH5034	5 x 6 B						
	2.6	0	0	100	28	73			IRFH5004	5 x 6 B						
	3.1	5	0	200	0	75							IRL1404ZS	IRL1404Z		
	3.4	4.1	0	150	23	42	IRF6613	MT								
	3.5	0	0	100	24	53			IRFH5104	5 x 6 B						
	3.7	0	0	190	0	100							IRF1404ZS	IRF1404Z		
	4.3	0	0	100	22	42			IRFH5204	5 x 6 B						
	4.5	6.5	0	130	0	40						IRLR3114Z				
	5	5.9	0	0	18	33					IRF7842					
	5	6.2	0	100	19	29	IRF6616	MX								
	5.5	0	0	120	0	68						IRFR4104	IRF4104S		IRF4104	
	8.3	9.9	0	55	12.7	19	IRF6614	ST								
9	0	0	77	0	30						IRFR3504Z					
55	2.6	0	0	240	0	130								IRF3805S-7P		
	6.5	0	0	110	0	76							IRF3205ZS	IRF3205Z		
	7.5	0	0	94	0	63							IRF1010ZS	IRF1010Z		
	8	12	0	89	0	44						IRLR3705Z				
	11	0	0	61	0	43						IRFR48Z	IRFZ48ZS		IRFZ48Z	
	13.5	22.5	0	60	0	23							IRLR2905Z			
	13.9	0	0	51	0	29							IRFZ44ZS	IRFZ44Z		
	24.5	0	0	30	0	18						IRFR4105Z				
58	100	0	16	0	6.6						IRLR024Z					
60	1.5	0	0	200	33	200	IRF7749L2	L8								
	1.9	2.2	0	300	0	110								IRLS3036-7P		
	2.1	0	0	293	0	200								IRFS3006-7P		
	2.4	2.8	0	270	0	91							IRLS3036	IRLB3036		
	2.5	0	0	270	0	200							IRFS3006	IRFB3006		
	3	0	0	210	0	120							IRFS3206	IRFB3206		
	4.1	0	0	100	21	67			IRFH5006	5 x 6 B						
	4.2	0	0	160	0	85							IRFS3306	IRFB3306		
	4.4	5.5	0	100	20	44			IRLH5036	5 x 6 B						
5.6	0	0	100	21	50			IRFH5106	5 x 6 B							
6.7	0	0	89	16	40			IRFH5206	5 x 6 B							

Power MOSFETs, continued

Voltage (V)	R _{DS(on)} max (mΩ)			I _D (A)		Q _g Typ (nC)	DirectFET		PQFN		SO-8	D-PAK	D ² PAK	D ² PAK-7	TO-220	TO-247	
	10V _{GS}	4.5V _{GS}	2.5V _{GS}	T _C = 25°C	T _A = 25°C		Part Number	Footprint	Part Number	Footprint							
60	6.8	8.3	0	99	0	33						IRLR3636					
	7	0	0	86	0	36	IRF6648	MN									
	9.4	0	0	0	12	26					IRF7855						
	11	0	0	67	13.4	24	IRF6674	MZ									
	14.4	0	0	40	11	23			IRFH5406	5 x 6 B							
75	1.8	0	0	350	0	380										IRFP4368	
	2.3	0	0	160	26	200	IRF7759L2	L8									
	2.6	0	0	260	0	160							IRFS3107-7P				
	3	0	0	230	0	160						IRFS3107					
	3.3	0	0	210	0	160									IRFB3077		
	3.8	0	0	160	0	170							IRF2907ZS-7P				
	4.1	0	0	170	0	120							IRFS3207Z		IRFB3207Z		
	4.5	0	0	170	0	180										IRFP2907Z	
	5.8	0	0	120	0	79							IRFS3307Z		IRFB3307Z		
	5.9	0	0	100	17	65			IRFH5007	5 x 6 B							
	9	0	0	80	0	56										IRFB3607	
	9.6	0	0	71	13	39			IRFH5207	5 x 6 B							
	16	0	0	53	0	50						IRFR2307Z					
	22	0	0	45	0	34						IRFR2607Z					
80	9.5	0	0	68	12	36	IRF6646	MN									
	13.4	0	0	0	10	27					IRF7854						
	15	0	0	55	0	22	IRF6668	MZ									
	15	0	0	0	9.2	31					IRF7493						
100	2.6	0	0	290	0	360										IRFP4468	
	3.5	0	0	124	20	200	IRF7769L2	L8									
	3.9	4.1	0	190	0	93								IRLS4030-7P			
	4	0	0	190	0	150								IRFS4010-7P			
	4.3	4.5	0	180	0	87							IRLS4030		IRLB4030		
	4.5	0	0	180	0	150										IRFB4110	
	4.7	0	0	180	0	143							IRFS4010				
	6	0	0	127	0	120							IRFS4310Z		IRFB4310Z		
	7	0	0	130	0	170										IRFB4310	
	9	9.9	0	100	13	44			IRLH5030	5 x 6 B							
	9	0	0	100	13	65			IRFH5010	5 x 6 B							
	9	0	0	97	0	83							IRFS4410Z		IRFB4410Z		
	12.4	0	0	63	11	48			IRFH5110	5 x 6 B							
	13	0	0	60	10.3	35	IRF6644	MN									
	14	16	0	63	0	34						IRLR3110Z					
	14	0	0	73	0	90							IRFS4610		IRFB4610		
	14.9	0	0	55	10	39			IRFH5210	5 x 6 B							
	18	0	0	59	0	82							IRFR3710Z	IRF3710ZS		IRF3710Z	
	18	0	0	46	9.3	24			IRFH5053	5 x 6 A							
	18	0	0	0	8.3	28						IRF7853					
	22	0	0	0	7.3	34						IRF7495					
	22	0	0	47	8.3	22	IRF6662	MZ									
	26.5	0	0	36	0	42								IRF540ZS		IRF540Z	
35	0	0	25	5.7	14	IRF6645	SJ										
36	0	0	42	0	73.3										IRFP150M		
62	0	0	19	4.2	8.7	IRF6655	SH										
62	0	0	19	4.2	8.7	IRF6665	SH										
62	0	0	14.4	4.1	8.3	IRF7665S2	SB										
72.5	0	0	18	0	15										IRFB4212		
190	0	0	8.7	0	6.9							IRFR120Z					
150	5.9	0	0	171	0	151										IRFP4568	
	11	0	0	67	11	97	IRF7779L2	L8									
	11.8	0	0	105	0	73								IRFS4115-7P			
	12.1	0	0	99	0	77							IRFS4115		IRFB4115		
	15	0	0	83	0	71							IRFS4321		IRFB4321	IRFP4321	
	31	0	0	56	10	33			IRFH5015	5 x 6 B							
	34.5	0	0	35	6.2	39	IRF6643	MZ									
	39	0	0	35	0	26										IRFB4615	
	42	0	0	33	0	26								IRFS5615		IRFB5615	
	42	0	0	33	0	26							IRFR4615	IRFS4615			
	43	0	0	0	5.1	25						IRF7815					
	44	0	0	0	5.2	36						IRF7494					
	56	0	0	28	4.9	25	IRF6775M	MZ									
	58	0	0	27	5	20			IRFH5215	5 x 6 B							
95	0	0	17	0	13										IRFB4019		
200	9.7	0	0	130	0	161										IRFP4668	
	20	0	0	76	0	100							IRFS4127		IRFB4127		
	25	0	0	65	0	70							IRFS4227		IRFB4227	IRFP4227	
	40	0	0	50	0	156										IRFP260M	
	55	0	0	43	5.1	36			IRFH5020	5 x 6 B							
59.9	0	0	26	4.6	34	IRF6641	MZ										

Power MOSFETs, continued

Voltage (V)	R _{DS(on)} max (mΩ)			I _D (A)		Qg Typ (nC)	DirectFET		PQFN		SO-8	D-PAK	D'PAK	D'PAK-7	TO-220	TO-247
	10V _{GS}	4.5V _{GS}	2.5V _{GS}	T _C = 25°C	T _A = 25°C		Part Number	Footprint	Part Number	Footprint						
200	72.5	0	0	25	0	25						IRFR4620	IRFS4620		IRFB4620	
	72.5	0	0	25	0	25							IRFS5620		IRFB5620	
	75	0	0	30	0	82										IRFP250M
	79	0	0	0	3.7	39					IRF7492					
	99.9	0	0	20	3.8	20			IRFH5220	5 x 6 B						
	100	0	0	19	3.4	26	IRF6785M	MZ								
250	17.5	0	0	93	0	180										IRFP4768
	33	0	0	60	0	99										IRFB4332 IRFP4332
	38	0	0	35	6.6	110	IRF7799L2	L8								
	46	0	0	46	0	72							IRFS4229		IRFB4229	IRFP4229
	100	0	0	32	3.8	37			IRFH5025	5 x 6 B						

Dual Power MOSFETs

Voltage (V)	R _{DS(on)} max (mΩ)			Configuration	Qg Typ (nC)	PQFN		SO-8	TSSOP-8
	10V _{GS}	4.5V _{GS}	2.5V _{GS}			Part Number	Footprint		
-30	16.3	23.8		Independent Symmetric	19			IRF9358	
	21	32		Independent Symmetric	13			IRF9362	
	170	290		Independent Symmetric	1.9	IRFHS9351	2 x 2		
20		45	62	Independent Symmetric	3.1	IRLHS6276	2 x 2		
25	11.3	15.4		Independent Symmetric	9.5				IRF8852
30	8.6	14.5		Half-Bridge Asymmetric	8.3	IRFH7911	5 x 6		
	3	4			34				
		17.9	23	Independent Symmetric	11			IRL6372	
	14.9	20.4		Independent Symmetric	15	IRFHM8363	3.3 x 3.3 E		
	15.5	21.6		Independent Symmetric	6			IRF8313	
	15.5	22.2		Half-Bridge Asymmetric	5.7			IRF8513	
	12.7	16.9			7.6				
	16.2	20.5		Half-Bridge Asymmetric	7.5			IRF7904	
	10.8	13			14				
	16.4	20.5		Independent Asymmetric	6.7			IRF7907	
	11.8	13.7			14				
21.8	29.3		Independent Asymmetric	4.6			IRF7905		
17.1	21.3			6.9					
		82	Independent Symmetric	2.8	IRLHS6376	2 x 2			
50	130	200		Independent Symmetric	12			IRF7103U	
60	17.8			Independent Symmetric	24			IRF7351	
100	195			Independent Symmetric	4.2	IRFHM792	3.3 x 3.3 E		

Small Power MOSFETs

Voltage (V)	R _{DS(on)} max (mΩ)			I _D (A)		Qg Typ (nC)	PQFN		SOT-23	TSOP-6
	10V _{GS}	4.5V _{GS}	2.5V _{GS}	T _C = 25°C	T _A = 25°C		Part Number	Footprint		
-30	37	65	0	-13	-6	6.9	IRFHS9301	2 x 2		
	40	66	0	0	5.8	12				IRFHS9342
	64	103	0	0	-3.6	4.8			IRLML9301	
	165	270	0	0	-2.3	2			IRLML9303	
-20	0	31	53	-15	-7.2	12	IRLHS2242	2 x 2		
	0	54	95	0	-4.3	6.9			IRLML2244	
	0	55	92	0	3.9	6.3				IRLTS2244
	0	135	236	0	-2.6	2.9			IRLML2246	
20	0	11.7	15.5	22	10	14	IRLHS6242	2 x 2		
	0	21	27	0	6.3	8.9			IRLML6244	
	0	46	66	0	4.1	3.5			IRLML6246	
	0	250	350 *	0	1.2	2.6			IRLML2402	
25	13	21	0	21	9.9	4.3	IRFHS8242	2 x 2		
	24	41	0	0	5.8	5.4			IRFML8244	
30	0	15.5	19.5	19	8.7	11	IRLHS6342	2 x 2		
	0	18	22	0	8.3	11				IRLTS6342
	16	25	0	19	0	4.2	IRFHS8342	2 x 2		
	0	29	37	0	5	6.8			IRLML6344	
	19	29	0	0	8.2	4.8				IRFHS8342
	27	40	0	0	5.3	2.6			IRLML0030	
	0	63	80	0	3.4	2.9			IRLML6346	
100	154	0	0	2.7	1			IRLML2030		
40	56	78	0	0	3.6	2.6			IRLML0040	
60	92	116	0	0	2.7	2.5			IRLML0060	
	480	640	0	0	1.2	0.67			IRLML2060	
100	220	235	0	0	1.6	2.5			IRLML0100	

* R_{DS(on)} measured at 2.7V

Integrated Voltage Regulators

THE IR ADVANTAGE

- Best-in-class efficiency over entire load range
- Common series footprint enables “cut and paste” design, and scalability allowing for faster time to market
- Integrated solution offers high power density with reduced component count and improved performance
- Single stage POL conversion saves energy, size and cost by eliminating the need for an intermediate bus
- Low profile and excellent thermal performance allows for back-side board mounting for additional space savings
- Wide input and output voltage range(s) maximizes appeal for broadest range of applications

Sup/IRBuck® Online Design Tool Generates Custom Designs in Minutes

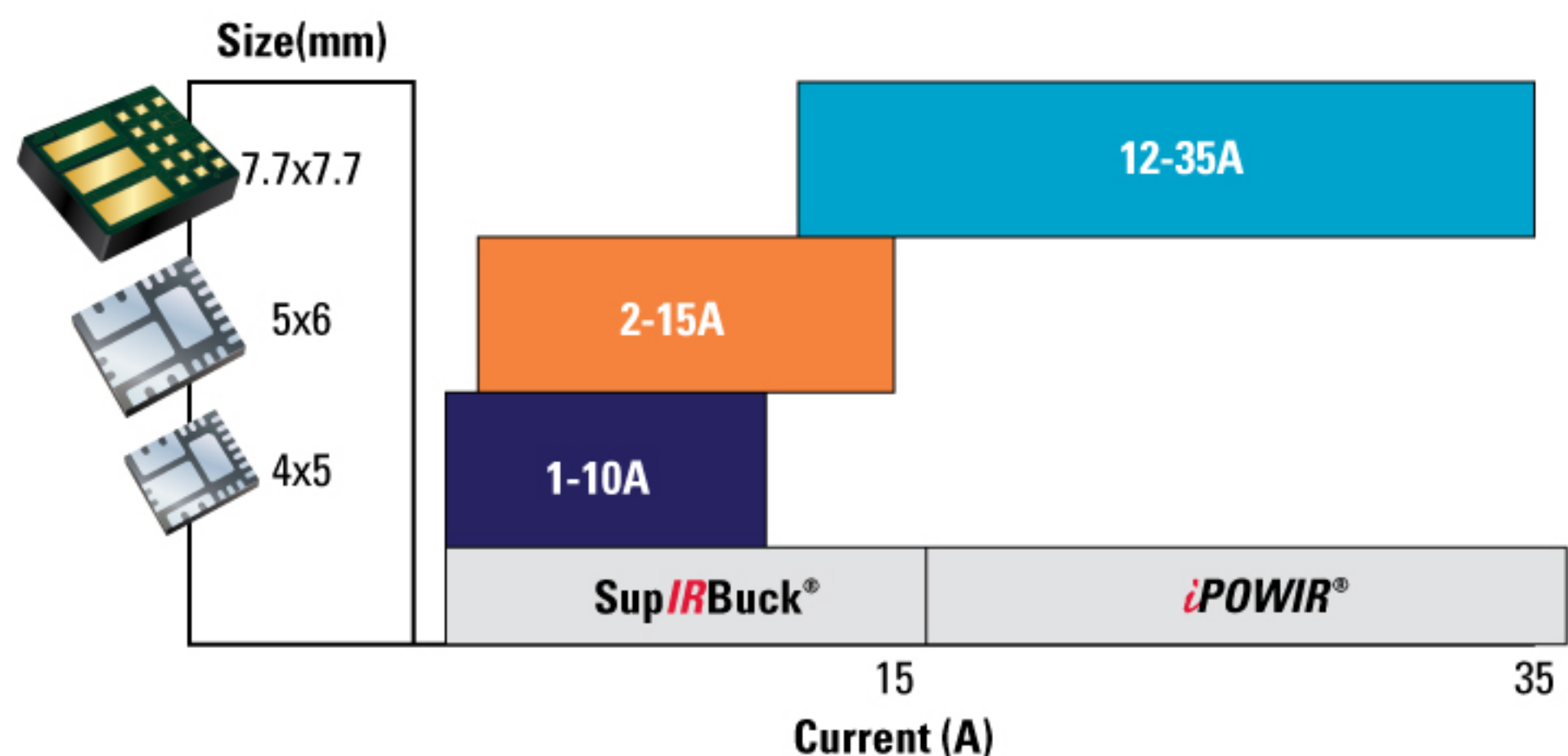
Comprehensive online design tool featuring parametric search, schematic capture, AC, Steady State, Transient Analysis, Thermal Analysis, BOM creation, and more...



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	1 - 16V		1.5 - 21V	3 - 27V
	5V bias required	Integrated LDO	5V bias required	
1-4A	IR3843W	IR3897*	IR3853	
4-6A	IR3842	IR3839*	IR3863	IR3473
	IR3842W	IR3898*	IR3856	
	IR3832W*			
6-10A	IR3831W*	IR3838*	IR3859	IR3475
	IR3841	IR3899*	IR3865	
	IR3841W			
10-15A	IR3840	IR3837*		IR3476
	IR3840W			IR3477
15-35A	iP1827			
	iP1837			

*DDR Tracking



Product Line	Applications	Key Products
 <p>Energy Saving Products Integrated design platforms that enable customers to add energy-conserving features that achieve lower operating energy costs and manufacturing Bill of Material (BOM) costs.</p>	<ul style="list-style-type: none"> • Appliances • Audio • Display • Industrial • Lighting • SMPS 	<ul style="list-style-type: none"> • Digital Control ICs • High-Voltage ICs • IGBTs • IRAM Integrated Power Modules • MERs
 <p>Enterprise Power Optimized power management system solutions that deliver benchmark power density, efficiency and performance in enterprise power.</p>	<ul style="list-style-type: none"> • Servers • Storage Networks • Switchers & Routers • Workstations • Notebooks • Game Stations • Set-Top Box 	<ul style="list-style-type: none"> • DirectFET[®] plus • Low-Voltage ICs • Sup/IRBuck[®] • iPOWIR[®] • PowIRstage[®] • CHiL Digital Controllers
 <p>Automotive Automotive grade power management solutions qualified to meet the needs of 12V, 24V and HEV/EV applications with a zero defect goal.</p>	<ul style="list-style-type: none"> • AC and DC Motor Drives • Powertrain / Engine control • Body Electronics • Lighting • Class D Audio • Heavy Loads and Actuators 	<p>Automotive Qualified:</p> <ul style="list-style-type: none"> • HEXFET[®] Power MOSFETs • Intelligent Power Switches • Driver ICs • IGBTs • DirectFET[®] 2
 <p>Benchmark MOSFETs IR continues to lead the industry by offering power MOSFETs with the lowest $R_{DS(on)}$ and widest range of packages up to 250V for a diverse range of applications.</p>	<ul style="list-style-type: none"> • Audio • Computing • Communications • Motor Control • Power Supply • Synchronous Rectification 	<ul style="list-style-type: none"> • Discrete HEXFET[®] MOSFETs • Dual HEXFET[®] MOSFETs • FETKY[®]
 <p>HiRel Our discrete components, complex hybrid power module assemblies and rugged DC-DC converters utilize leading-edge power technology which, together with demanding environmental specifications help engineers to meet their toughest design challenges.</p>	<ul style="list-style-type: none"> • Space • Military • Commercial Aviation • Rugged Industrial • Medical 	<ul style="list-style-type: none"> • RAD-Hard MOSFETs • Power Modules/Hybrid Solutions • Motor Control Solutions • DC-DC Converters