

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

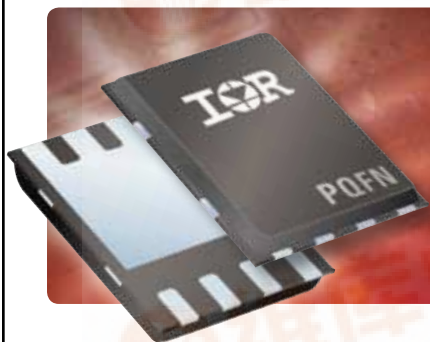
Key Products

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



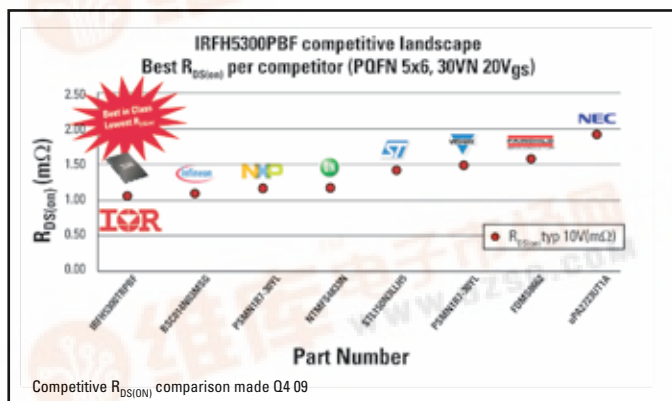
For a full list of the automotive MOSFETs please visit www.irf.com

Power QFN



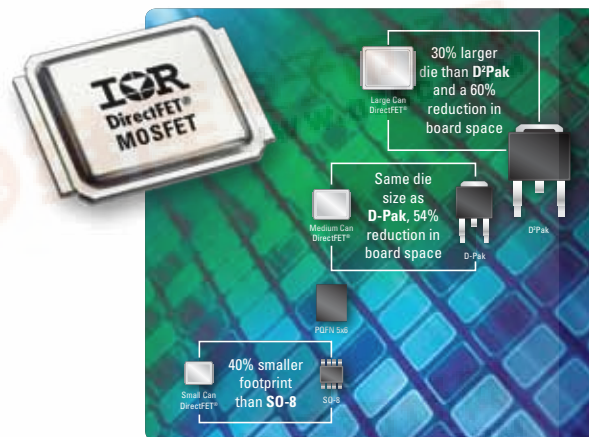
FEATURES

- Industry brand leader in MOSFET
- Benchmark thermal performance
- Lowest $R_{DS(ON)}$



International Rectifier will release an expansive portfolio of PQFN benchmark MOSFETs in early CY10.

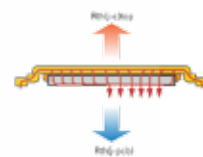
DirectFET®



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

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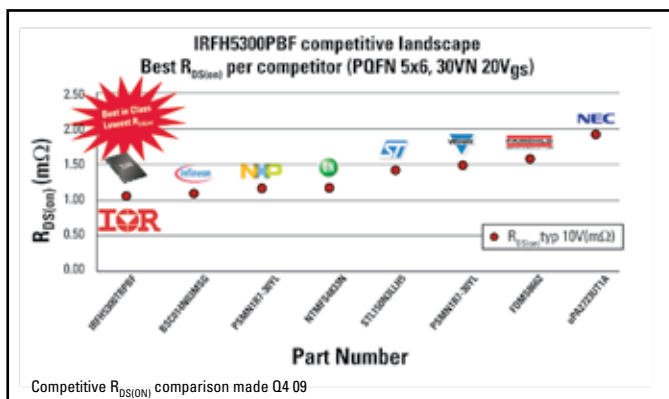
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Power QFN



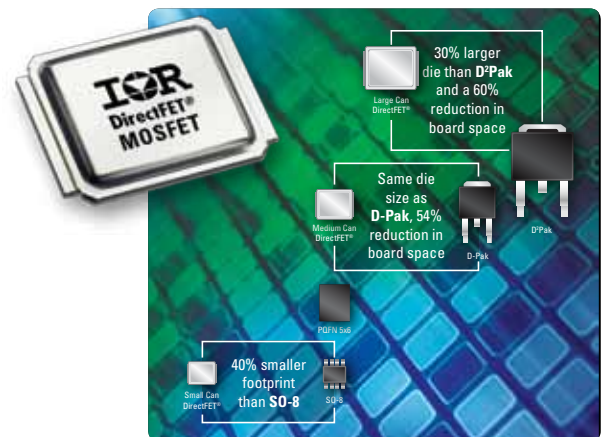
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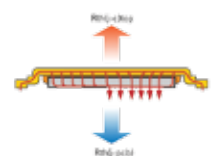
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Double-sided cooling for superior thermal performance

查询"IRF779L2TRPBF"供应商

N-Channel MOSFETs

Voltage (V)	R _{DS(on)} @10Vgs max (mΩ)	R _{DS(on)} @4.5Vgs max (mΩ)	I _D @ T _C = 25°C (A)	I _D @ T _A = 25°C (A)	Q _g Typ @ 10Vgs (nC)	Q _g Typ @ 4.5Vgs (nC)	DirectFET		PQFN 5x6	SO-8	D-PAK	D ² PAK	D ² PAK-7	TO-220	TO-247
							Part Number	Layout ²							
20	4.0	5.5	120			21					IRLR3717PBF				
20	4.4	5.7		20		22				IRF3717PBF					
20	5.7	7.8	93			18					IRFR3711ZPBF				
20	6.0	7.3	92			16						IRF3711ZSPBF			IRF3711ZPBF
20	7.9	11.1	67			8.7						IRF3704ZSPBF			IRF3704ZPBF
20	8.4	11.4	60			9.3					IRFR3704ZPBF				
20	11	15.5	49			7.2					IRLR3715ZPBF				
20	11	15.5	50			7.0						IRL3715ZSPBF			IRL3715ZPBF
20	15	25	37			4.5					IRLR3714ZPBF				
20	16	26	36			4.8						IRL3714ZSPBF			IRL3714ZPBF
24	1.0		429		180								IRF1324S-7PPBF		
24	1.5		353		160									IRF1324PBF	
24	1.65		340		160							IRF1324SPBF			
25	1.15	1.75	45	100	110	52			IRFH5250TRPBF ¹						
25	1.25	2.1	220	38		46	IRF6717MTRPBF	MX							
25	1.6	2.6	180	39		39	IRF6716MTRPBF	MX							
25	1.6	2.7	180	34		40	IRF6715MTRPBF	MX							
25	2.1	3.4	166	29		29	IRF6714MTRPBF	MX							
25	2.7	3.7		25		25				IRF8252PBF					
25	3.0	4.6	95	22		21	IRF6713STRPBF	SQ							
25	4.9	8.7	68	17		12	IRF6712STRPBF	SQ							
25	5.7	8.5	81			10					IRLR8256PBF				
25	5.9	11.9	37	12		8.8	IRF6710S2TRPBF	S1							
25	6.0	10.9	51	14.5	7.0				IRFH5255TRPBF ¹						
25	7.8	13.5	39	12		8.1	IRF6709S2TRPBF	S1							
25	8.7	12.9	57			6.8					IRLR8259PBF				
30		7.4	94		22						IRLR8113PBF				
30	1.4	2.1	100	40	120	50			IRFH5300TRPBF ¹						
30	1.7	2.4	180	32		49	IRF6727MTRPBF	MX							
30	1.7	2.4	180	32		51	IRF6726MTRPBF	MT							
30	1.85	2.9	100	35	77	37			IRFH5301TRPBF ¹						
30	2.1	3.5	100	32	76	29			IRFH5302TRPBF ¹						
30	2.2	3.2	170	28		36	IRF6725MTRPBF	MX							
30	2.4		235		160						IRF2903ZSPBF				IRF2903ZPBF
30	2.5	3.5	150	27		33	IRF6724MTRPBF	MX							
30	2.8	3.8		24		44				IRF8788PBF					
30	3.1	3.9	160			39					IRLR8743PBF				
30	3.2	4.2	150			36								IRLB8743PBF ¹	
30	3.3	3.9	104	24		34			IRFH7932TRPBF						
30	3.3	4.5		21		30				IRF7862PBF					
30	3.5	5.1	76	24		20			IRFH7934TRPBF	IRF8734PBF					
30	3.8	4.5	150			32					IRL7833SPBF				IRL7833PBF
30	4.8	6.8		18		17				IRF8736PBF					
30	4.8	6.8	76	20		17			IRFH7936TRPBF						
30	4.8	6.8	92			15								IRLB8748PBF ¹	
30	5.8	8.0	86			15					IRLR8726PBF				
30	6.0	7.1	105			23					IRL8113SPBF				IRL8113PBF
30	6.3	7.8	87			17					IRF3709ZSPBF				IRF3709ZPBF
30	7.1	11.8	42	16		9.6			IRFH3702TRPBF ³						
30	7.3	10.9	60	14		11	IRF6721STRPBF	SQ							
30	7.7	10.8	56	13		11	IRF6722MTRPBF	MP							
30	7.7	10.8	56	13		11	IRF6722STRPBF	ST							
30	8.0	12.8	35	11		7.9	IRF6720S2TRPBF	S1							
30	8.1	13.3	44	15		78			IRFH5306TRPBF ¹						
30	8.4	11.8	65			8.5					IRLR8721PBF				
30	8.5	12.5		14		8.3				IRF8721PBF					
30	8.5	12.5	34	15		9.3			IRFH7921TRPBF						
30	8.7	13		14		8.1				IRF8714PBF					
30	8.7	16	62			7.6								IRLB8721PBF ¹	
30	8.9	11.9	58			10					IRLR8729PBF				
30	9.5	12.5	59			9.7					IRF3707ZSPBF				IRF3707ZPBF
30	11.9	17.5		11		6.2				IRF8707PBF					
30	12.4	17.9	29	12		5.4			IRFH3707TRPBF ³						
30	13.8	18.2	43			7.0					IRLR7807ZPBF				
40	1.0		270	46	220		IRF7739L2TRPBF ¹	L8							
40	1.4	1.7	380			120							IRLS3034-7PPBF		

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¹ New Product

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³ PQFN 3x3

查询"IRF779L2TRPBF"供应商

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							Part Number	Layout ²							
20	4.0	5.5	120			21					IRLR3717PBF				
20	4.4	5.7		20		22				IRF3717PBF					
20	5.7	7.8	93			18					IRFR3711ZPBF				
20	6.0	7.3	92			16						IRF3711ZSPBF			IRF3711ZPBF
20	7.9	11.1	67			8.7						IRF3704ZSPBF			IRF3704ZPBF
20	8.4	11.4	60			9.3					IRFR3704ZPBF				
20	11	15.5	49			7.2					IRLR3715ZPBF				
20	11	15.5	50			7.0						IRL3715ZSPBF			IRL3715ZPBF
20	15	25	37			4.5					IRLR3714ZPBF				
20	16	26	36			4.8						IRL3714ZSPBF			IRL3714ZPBF
24	1.0		429		180								IRF1324S-7PPBF		
24	1.5		353		160									IRF1324PBF	
24	1.65		340		160							IRF1324SPBF			
25	1.15	1.75	45	100	110	52			IRFH5250TRPBF ¹						
25	1.25	2.1	220	38		46	IRF6717MTRPBF	MX							
25	1.6	2.6	180	39		39	IRF6716MTRPBF	MX							
25	1.6	2.7	180	34		40	IRF6715MTRPBF	MX							
25	2.1	3.4	166	29		29	IRF6714MTRPBF	MX							
25	2.7	3.7		25		25				IRF8252PBF					
25	3.0	4.6	95	22		21	IRF6713STRPBF	SQ							
25	4.9	8.7	68	17		12	IRF6712STRPBF	SQ							
25	5.7	8.5	81			10					IRLR8256PBF				
25	5.9	11.9	37	12		8.8	IRF6710S2TRPBF	S1							
25	6.0	10.9	51	14.5	7.0				IRFH5255TRPBF ¹						
25	7.8	13.5	39	12		8.1	IRF6709S2TRPBF	S1							
25	8.7	12.9	57			6.8					IRLR8259PBF				
30		7.4	94		22						IRLR8113PBF				
30	1.4	2.1	100	40	120	50			IRFH5300TRPBF ¹						
30	1.7	2.4	180	32		49	IRF6727MTRPBF	MX							
30	1.7	2.4	180	32		51	IRF6726MTRPBF	MT							
30	1.85	2.9	100	35	77	37			IRFH5301TRPBF ¹						
30	2.1	3.5	100	32	76	29			IRFH5302TRPBF ¹						
30	2.2	3.2	170	28		36	IRF6725MTRPBF	MX							
30	2.4		235		160						IRF2903ZSPBF				IRF2903ZPBF
30	2.5	3.5	150	27		33	IRF6724MTRPBF	MX							
30	2.8	3.8		24		44				IRF8788PBF					
30	3.1	3.9	160			39					IRLR8743PBF				
30	3.2	4.2	150			36								IRLB8743PBF ¹	
30	3.3	3.9	104	24		34			IRFH7932TRPBF						
30	3.3	4.5		21		30				IRF7862PBF					
30	3.5	5.1	76	24		20			IRFH7934TRPBF	IRF8734PBF					
30	3.8	4.5	150			32					IRL7833SPBF				IRL7833PBF
30	4.8	6.8		18		17				IRF8736PBF					
30	4.8	6.8	76	20		17			IRFH7936TRPBF						
30	4.8	6.8	92			15								IRLB8748PBF ¹	
30	5.8	8.0	86			15					IRLR8726PBF				
30	6.0	7.1	105			23					IRL8113SPBF				IRL8113PBF
30	6.3	7.8	87			17					IRF3709ZSPBF				IRF3709ZPBF
30	7.1	11.8	42	16		9.6			IRFH3702TRPBF ³						
30	7.3	10.9	60	14		11	IRF6721STRPBF	SQ							
30	7.7	10.8	56	13		11	IRF6722MTRPBF	MP							
30	7.7	10.8	56	13		11	IRF6722STRPBF	ST							
30	8.0	12.8	35	11		7.9	IRF6720S2TRPBF	S1							
30	8.1	13.3	44	15		78			IRFH5306TRPBF ¹						
30	8.4	11.8	65			8.5					IRLR8721PBF				
30	8.5	12.5		14		8.3				IRF8721PBF					
30	8.5	12.5	34	15		9.3			IRFH7921TRPBF						
30	8.7	13		14		8.1				IRF8714PBF					
30	8.7	16	62			7.6								IRLB8721PBF ¹	
30	8.9	11.9	58			10					IRLR8729PBF				
30	9.5	12.5	59			9.7					IRF3707ZSPBF				IRF3707ZPBF
30	11.9	17.5		11		6.2				IRF8707PBF					
30	12.4	17.9	29	12		5.4			IRFH3707TRPBF ³						
30	13.8	18.2	43			7.0					IRLR7807ZPBF				
40	1.0		270	46	220		IRF7739L2TRPBF ¹	L8							
40	1.4	1.7	380			120							IRLS3034-7PPBF		

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¹ New Product

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³ PQFN 3x3

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							Part Number	Layout ²							
20	4.0	5.5	120			21					IRLR3717PBF				
20	4.4	5.7		20		22				IRF3717PBF					
20	5.7	7.8	93			18					IRFR3711ZPBF				
20	6.0	7.3	92			16						IRF3711ZSPBF			IRF3711ZPBF
20	7.9	11.1	67			8.7						IRF3704ZSPBF			IRF3704ZPBF
20	8.4	11.4	60			9.3					IRFR3704ZPBF				
20	11	15.5	49			7.2					IRLR3715ZPBF				
20	11	15.5	50			7.0						IRL3715ZSPBF			IRL3715ZPBF
20	15	25	37			4.5					IRLR3714ZPBF				
20	16	26	36			4.8						IRL3714ZSPBF			IRL3714ZPBF
24	1.0		429		180								IRF1324S-7PPBF		
24	1.5		353		160									IRF1324PBF	
24	1.65		340		160							IRF1324SPBF			
25	1.15	1.75	45	100	110	52			IRFH5250TRPBF ¹						
25	1.25	2.1	220	38		46	IRF6717MTRPBF	MX							
25	1.6	2.6	180	39		39	IRF6716MTRPBF	MX							
25	1.6	2.7	180	34		40	IRF6715MTRPBF	MX							
25	2.1	3.4	166	29		29	IRF6714MTRPBF	MX							
25	2.7	3.7		25		25				IRF8252PBF					
25	3.0	4.6	95	22		21	IRF6713STRPBF	SQ							
25	4.9	8.7	68	17		12	IRF6712STRPBF	SQ							
25	5.7	8.5	81			10					IRLR8256PBF				
25	5.9	11.9	37	12		8.8	IRF6710S2TRPBF	S1							
25	6.0	10.9	51	14.5	7.0				IRFH5255TRPBF ¹						
25	7.8	13.5	39	12		8.1	IRF6709S2TRPBF	S1							
25	8.7	12.9	57			6.8					IRLR8259PBF				
30		7.4	94		22						IRLR8113PBF				
30	1.4	2.1	100	40	120	50			IRFH5300TRPBF ¹						
30	1.7	2.4	180	32		49	IRF6727MTRPBF	MX							
30	1.7	2.4	180	32		51	IRF6726MTRPBF	MT							
30	1.85	2.9	100	35	77	37			IRFH5301TRPBF ¹						
30	2.1	3.5	100	32	76	29			IRFH5302TRPBF ¹						
30	2.2	3.2	170	28		36	IRF6725MTRPBF	MX							
30	2.4		235		160						IRF2903ZSPBF				IRF2903ZPBF
30	2.5	3.5	150	27		33	IRF6724MTRPBF	MX							
30	2.8	3.8		24		44				IRF8788PBF					
30	3.1	3.9	160			39					IRLR8743PBF				
30	3.2	4.2	150			36								IRLB8743PBF ¹	
30	3.3	3.9	104	24		34			IRFH7932TRPBF						
30	3.3	4.5		21		30				IRF7862PBF					
30	3.5	5.1	76	24		20			IRFH7934TRPBF	IRF8734PBF					
30	3.8	4.5	150			32					IRL7833SPBF				IRL7833PBF
30	4.8	6.8		18		17				IRF8736PBF					
30	4.8	6.8	76	20		17			IRFH7936TRPBF						
30	4.8	6.8	92			15								IRLB8748PBF ¹	
30	5.8	8.0	86			15					IRLR8726PBF				
30	6.0	7.1	105			23					IRL8113SPBF				IRL8113PBF
30	6.3	7.8	87			17					IRF3709ZSPBF				IRF3709ZPBF
30	7.1	11.8	42	16		9.6			IRFH3702TRPBF ³						
30	7.3	10.9	60	14		11	IRF6721STRPBF	SQ							
30	7.7	10.8	56	13		11	IRF6722MTRPBF	MP							
30	7.7	10.8	56	13		11	IRF6722STRPBF	ST							
30	8.0	12.8	35	11		7.9	IRF6720S2TRPBF	S1							
30	8.1	13.3	44	15		78			IRFH5306TRPBF ¹						
30	8.4	11.8	65			8.5					IRLR8721PBF				
30	8.5	12.5		14		8.3				IRF8721PBF					
30	8.5	12.5	34	15		9.3			IRFH7921TRPBF						
30	8.7	13		14		8.1				IRF8714PBF					
30	8.7	16	62			7.6								IRLB8721PBF ¹	
30	8.9	11.9	58			10					IRLR8729PBF				
30	9.5	12.5	59			9.7					IRF3707ZSPBF				IRF3707ZPBF
30	11.9	17.5		11		6.2				IRF8707PBF					
30	12.4	17.9	29	12		5.4			IRFH3707TRPBF ³						
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³ PQFN 3x3

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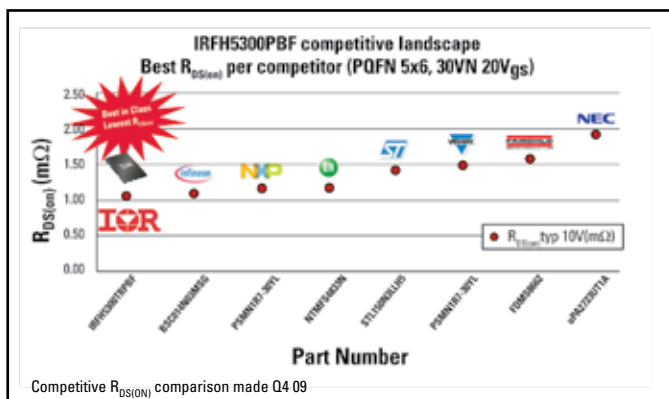
For a full list of the automotive MOSFETs please visit www.irf.com

Power QFN



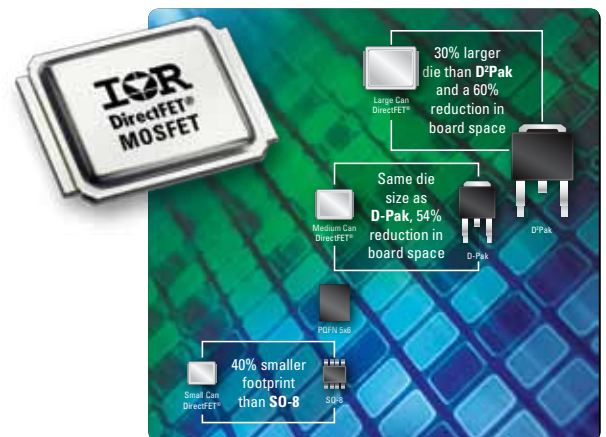
FEATURES

- Industry brand leader in MOSFET
- Benchmark thermal performance
- Lowest $R_{DS(ON)}$



International Rectifier will release an expansive portfolio of PQFN benchmark MOSFETs in early CY10.

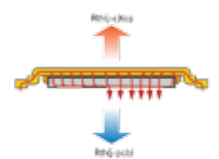
DirectFET®



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

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