OptiMOS™ and StrongIRFET™ MOSFETS

Selection guide 2020

www.infineon.com/powermosfet-12V-300V

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OptiMOS™ and StrongIRFET™

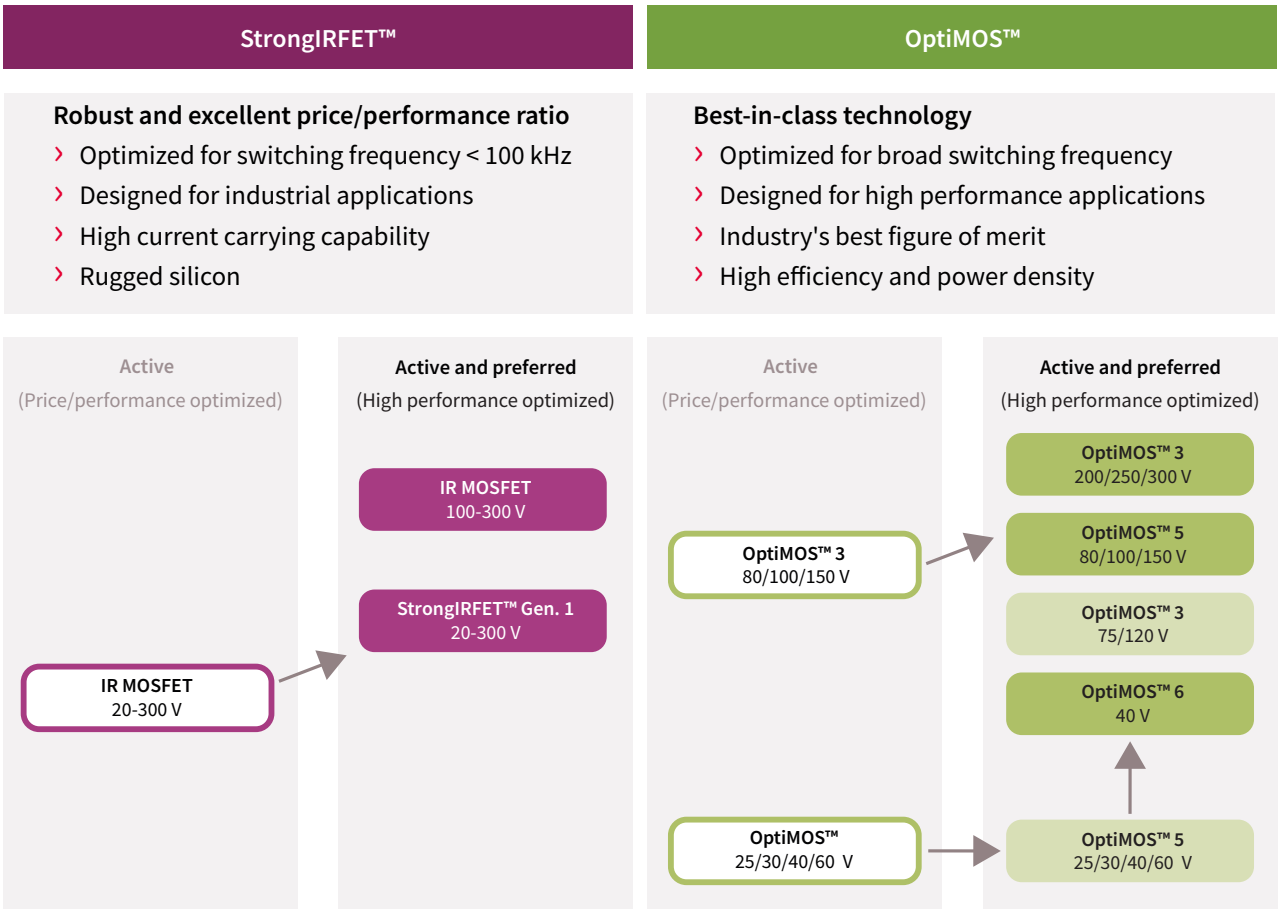
20-300 V N-channel power MOSFETs

Infineon's semiconductors are designed to bring greater efficiency, power density and cost-effectiveness. The full range of OptiMOS™ and StrongIRFET™ power MOSFETs enables innovation and performance in applications such as switch mode power supplies (SMPS), battery powered applications, motor control and drives, inverters, and computing.

Infineon's highly innovative OptiMOS™ and StrongIRFET™ families consistently meet the highest quality and performance demands in key specifications for power system designs such as on-state resistance ($R_{DS(on)}$) and figure of merit (FOM).

OptiMOS™ power MOSFETs provide best-in-class performance. Features include ultralow $R_{DS(on)}$, as well as low charge for high switching frequency applications. StrongIRFET™ power MOSFETs are designed for drives applications and are ideal for designs with a low switching frequency, as well as those that require a high current carrying capability.

Technology development and product family positioning



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For more details on the product, click on the part number.

Infineon's power MOSFET 20-300 V product portfolio is divided into „active and preferred“, referring to the latest technology available offering best-in-class performance, and „active“, consisting of well-established technologies which complete this broad portfolio.

OptiMOS™ 6 power MOSFETs 40 V are the newest addition to the OptiMOS™ product family available either in SuperSO8 or PQFN 3.3 x 3.3 packages. This technology is the perfect solution when best-in-class (BiC) products and high efficiency over a wide range of output power are required. For other voltage classes, from 25 V up to 150 V, OptiMOS™ 5 represents the latest generation in the market, offering either best-in-class (BiC) or price/performance solutions. For high frequency applications, the product portfolio is complemented by OptiMOS™ 3 power MOSFETs 40/60 V as standard components. The „active and preferred“ OptiMOS™ 3 power MOSFETs 75/120 V, as well as 200/250/300 V is the best fit portfolio either in low- or high-frequency applications with a range of products covering from BiC to standard parts.

StrongIRFET™ is recommended for 20-300 V applications when the BiC performance is not essential and the cost is a more significant consideration.

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For more details on the product, click on the part number.

Guidance for applications and voltage classes

OptiMOS™ and StrongIRFET™ portfolio, covering 20 up to 300 V MOSFETs, can address a broad range of needs from low- to high-switching frequencies. The tables below provide a guidance on the recommended OptiMOS™ or StrongIRFET™ products for each major sub-application and voltage class.

Recommended voltage			20 V to 30 V	40 V	60 V	75 V to 80 V	100 V	135 V to 150 V	200 V	250 V	300 V
Battery powered	Low power Power tools, Multicopter, Battery, Industrial Drives	OptiMOS™	✓	✓	✓	✓					
		StrongIRFET™	✓	✓	✓	✓					
	High power (LEV, LSEV)	OptiMOS™			✓	✓	✓	✓	✓		
		StrongIRFET™			✓	✓	✓	✓	✓		
Inverters	Solar	OptiMOS™			✓	✓	✓	✓			
		StrongIRFET™			✓	✓	✓				
	Online UPS	slow switching									
		OptiMOS™	✓	✓	✓	✓	✓	✓	✓	✓	✓
		StrongIRFET™	✓	✓	✓	✓	✓	✓	✓	✓	✓
		fast switching									
		OptiMOS™	✓	✓	✓	✓	✓	✓	✓	✓	✓
		StrongIRFET™	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Offline UPS	OptiMOS™		✓	✓						
		StrongIRFET™		✓	✓						
SMPS	Adapter / Charger	OptiMOS™		✓	✓	✓	✓				
		StrongIRFET™		✓	✓	✓	✓				
	PC Power	OptiMOS™		✓	✓						
		StrongIRFET™		✓	✓						
	LCD TV	OptiMOS™			✓	✓	✓				
		StrongIRFET™			✓	✓	✓				
	Server	OptiMOS™		✓	✓	✓					
		StrongIRFET™		✓	✓	✓					
	AC-DC	OptiMOS™				✓	✓	✓	✓		
		StrongIRFET™				✓	✓				
	Telecom	OptiMOS™	✓	✓	✓	✓	✓	✓			
		StrongIRFET™	✓	✓	✓	✓	✓				

StrongIRFET™ recommended

StrongIRFET™ available

OptiMOS™ recommended

OptiMOS™ available

For more details on the product, click on the part number.

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Space-saving and high performance packages

	TO-247	TO-220	TO-220 FullPAK	D²PAK	D²PAK 7-pin	TO-Leadless
						
	Optimized for high power applications and high current capability					
Height [mm]	5.0	4.4	4.5	4.4	4.4	2.3
Outline [mm]	40.15 x 15.9	29.5 x 10.0	29.5 x 10.0	15.0 x 10.0	15.0 x 10.0	11.68 x 9.9
Thermal resistance R_{thJC} [K/W]	2.0	0.5	2.5	0.5	0.5	0.4

	SuperSO8	Power Block	PQFN 3.3 x 3.3 Source-Down	PQFN 3.3 x 3.3	PQFN 2 x 2	DirectFET™
						
	For highest efficiency and power management	Significant design shrink	High power density and performance	For highest efficiency and power management	Enables significant space saving	Best thermal behavior in a tiny footprint
Height [mm]	1.0	1.0	1.0	1.0	0.9	Small: 0.65 Medium: 0.65 Large: 0.71
Outline [mm]	5.15 x 6.15	5.0 x 6.0	3.3 x 3.3	3.3 x 3.3	2.0 x 2.0	Small: 4.8 x 3.8 Medium: 6.3 x 4.9 Large: 9.1 x 6.98
Thermal resistance R_{thJC} [K/W]	0.8	1.5	1.4	3.2	11.1	0.5

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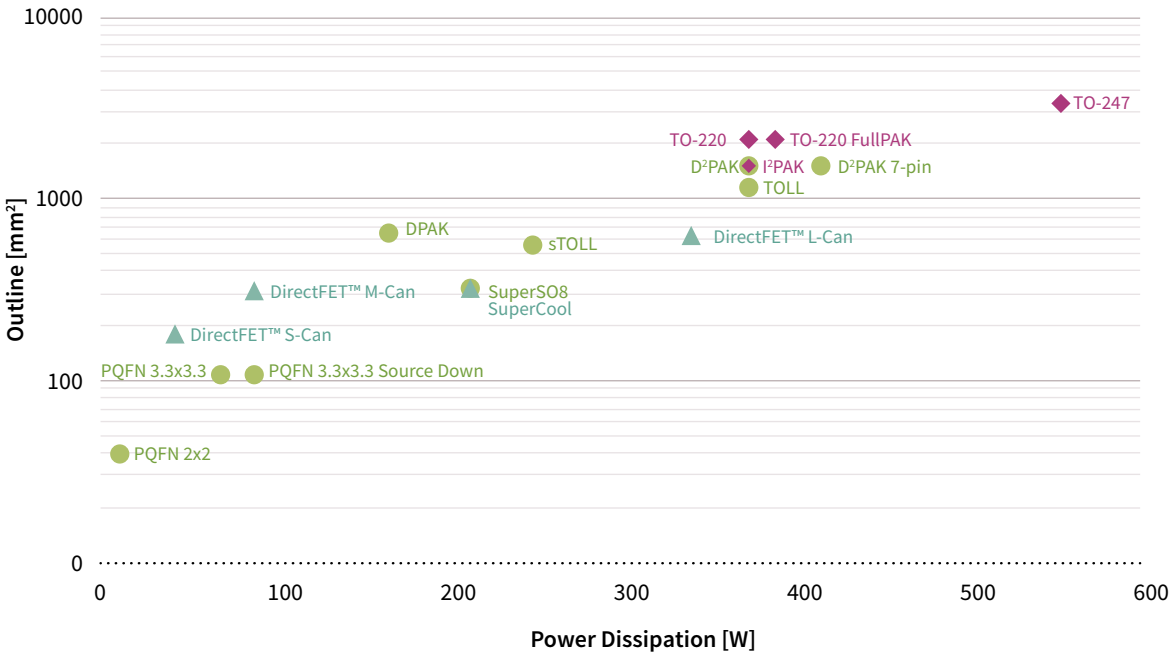
For more details on the product, click on the part number.

Discrete and integrated packages

OptiMOS™ and StrongIRFET™ technologies are available in different packages to address demands for higher current carrying capability and significant space saving. The broad portfolio enables footprint reduction, boosted current rating and optimized thermal performance. While the surface mound leadless devices are enabled for footprint reduction, through-hole packages are characterized by a high power rating. Furthermore, Infineon offers innovative packages such as DirectFET™ and TO-Leadless. DirectFET™ is designed for high frequency applications by offering the lowest parasitic resistance. This package is available in three different sizes: small, medium and large. TO-Leadless is optimized to dissipate power up to 375 W, increasing power density with a substantial reduction in footprint.



www.infineon.com/powermosfet-12V-300V

For more details on the product, click on the part number.

Small signal/small power MOSFETs 250-600 V

Combining latest high-performance silicon technology with small and innovative packaging

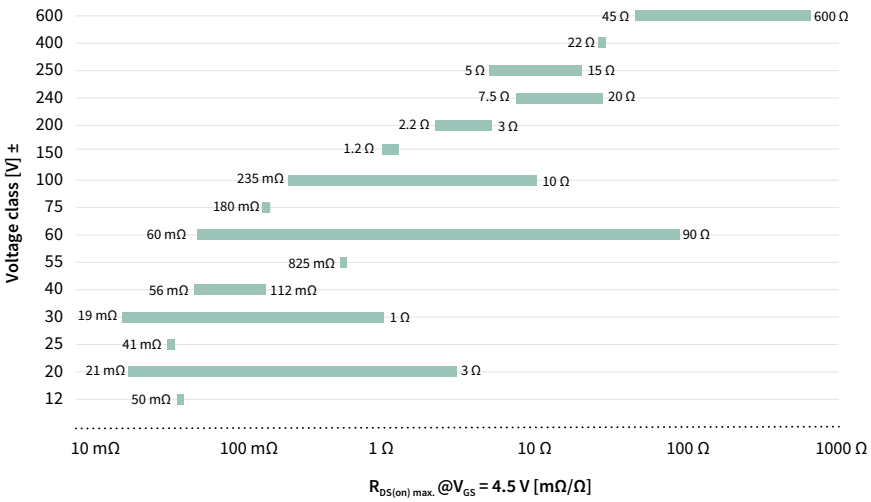
Small signal/small power products are ideally suited for space-constrained automotive or non-automotive applications. By combining the latest high-performance silicon technology with small and innovative packaging, Infineon's small signal/small power family offers designers more flexibility when it comes to making their power MOSFET selection. The products can be found in almost all applications e.g. battery protection, battery charging, LED lighting, load switches, DC-DC converters, level shifters, low voltage drives and many more.

The entire family includes different packages:
SOT-223, SOT-23, SOT-323, SOT-363, SOT-89, TSOP-6 and SC59

The product portfolio covers N-channel and P-channel enhancement mode MOSFETs as well as N-channel depletion mode products:

- 20-250 V P-channel enhancement mode (available in single and dual configurations)
- 20-600 V N-channel enhancement mode (available in single and dual configurations)
- -20/20 V and -30/30 V complementary (P + N channel) enhancement mode
- 60-600 V N-channel depletion mode

Key features	Key benefits
Most products qualified to AEC Q101	Suitable for automotive and high quality demanding applications
Four $V_{GS(th)}$ classes available for 1.8 V, 2.5 V, 4.5 V, and 10 V gate drives	Easy interface to MCU
ESD protected p-channel parts	Reduction of design complexity
V_{DS} range from -250 V to 600 V	Wide selection of products available Industry standard small outline packages
RoHS compliant and halogen free	Environmentally friendly



Small signal/small power MOSFETs are available in seven industry-standard package types ranging from the largest SOT-223 to the smallest SOT-363.

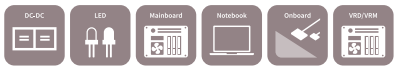
Products are offered in single, dual and complementary configurations and are suitable for a wide range of applications, including battery protection, LED lighting, low voltage drives and DC-DC converters.

	SOT-363	SOT-323	SOT-23	TSOP-6	SC59	SOT-89	SOT-223
							
Package outline [mm²]	4.2	4.2	6.96	7.25	8.4	18	45.5

www.infineon.com/smallsignal

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 20 V (super) logic level



$R_{DS(on)}$ max @ V_{GS}=10 V [mΩ]	TO-252 (DPAK)	DirectFET™	PQFN 2 x 2	PQFN 3.3 x 3.3	SuperSO8	SO-8
< 1		IRL6283MTRPBF $R_{DS(on)}$=0.65 mΩ			IRFH6200TRPBF $R_{DS(on)}$=0.99 mΩ	
2-4				IRLHM620TRPBF*** [1]) $R_{DS(on)}$=2.5 mΩ	BSC026N02KS G $R_{DS(on)}$=2.6 mΩ	IRF6201TRPBF $R_{DS(on)}$=2.45 mΩ
	IRLR6225TRPBF $R_{DS(on)}$=4.0 mΩ	IRL6297SDTRPBF** $R_{DS(on)}$=3.8 mΩ; dual			IRLH6224TRPBF $R_{DS(on)}$=3.0 mΩ	
4-10					BSC046N02KS G $R_{DS(on)}$=4.6 mΩ	IRF3717 $R_{DS(on)}$=4.4 mΩ
> 10			IRLHS6242TRPBF $R_{DS(on)}$=11.7 mΩ			
			IRLHS6276TRPBF** $R_{DS(on)}$=45.0 mΩ; dual			

OptiMOS™ and StrongIRFET™ 25 V logic level

$R_{DS(on)}$ max @ V_{GS}=10 V [mΩ]	DirectFET™	PQFN 2 x 2	PQFN 3.3 x 3.3	SuperSO8	SO-8
< 1	IRF6718L2TRPBF $R_{DS(on)}$=0.7 mΩ		IQE006NE2LM5 [3]) $R_{DS(on)}$=0.6 mΩ	BSC004NE2LS5 [2]) $R_{DS(on)}$=0.9 mΩ	
	BSB008NE2LX $R_{DS(on)}$=0.8 mΩ		IQE006NE2LM5CG [3]) $R_{DS(on)}$=0.6 mΩ	BSC009NE2LS5 $R_{DS(on)}$=0.9 mΩ	
			BSZ009NE2LS5 $R_{DS(on)}$=0.9 mΩ	BSC009NE2LS5I** $R_{DS(on)}$=0.95 mΩ	
1-2	IRF6898MTRPBF** $R_{DS(on)}$=1.1 mΩ		BSZ010NE2LS5 $R_{DS(on)}$=1.0 mΩ	BSC010NE2LS $R_{DS(on)}$=1.0 mΩ	
	BSB012NE2LXI** $R_{DS(on)}$=1.2 mΩ		BSZ011NE2LS5I $R_{DS(on)}$=1.1 mΩ	BSC010NE2LSI** $R_{DS(on)}$=1.05 mΩ	
	IRF6717MTRPBF $R_{DS(on)}$=1.25 mΩ		BSZ011NE2LS5I $R_{DS(on)}$=1.1 mΩ	BSC014NE2LSI** $R_{DS(on)}$=1.4 mΩ	
	IRF6894MTRPBF** $R_{DS(on)}$=1.3 mΩ		BSZ013NE2LS5I** $R_{DS(on)}$=1.3 mΩ	IRFH5250D $R_{DS(on)}$=1.4 mΩ	
	BSB013NE2LXI** $R_{DS(on)}$=1.3 mΩ		BSZ014NE2LS5IF*** $R_{DS(on)}$=1.45 mΩ	BSC015NE2LS5I** $R_{DS(on)}$=1.5 mΩ	
	IRF6797MTRPBF** $R_{DS(on)}$=1.4 mΩ		BSZ017NE2LS5I** $R_{DS(on)}$=1.7 mΩ	BSC018NE2LS $R_{DS(on)}$=1.8 mΩ	
	IRF6716M $R_{DS(on)}$=1.6 mΩ		BSZ018NE2LS $R_{DS(on)}$=1.8 mΩ	BSC018NE2LSI** $R_{DS(on)}$=1.8 mΩ	
	IRF6715MTRPBF $R_{DS(on)}$=1.6 mΩ		BSZ018NE2LSI** $R_{DS(on)}$=1.8 mΩ		
	IRF6893MTRPBF** $R_{DS(on)}$=1.6 mΩ				
	IRF6892STRPBF** $R_{DS(on)}$=1.7 mΩ				
	IRF6795MTRPBF** $R_{DS(on)}$=1.8 mΩ				
2-4	IRF6714MTRPBF $R_{DS(on)}$=2.1 mΩ	ISK024NE2LM5**** $R_{DS(on)}$=2.4 mΩ	BSZ031NE2LS5 $R_{DS(on)}$=3.1 mΩ	BSC024NE2LS $R_{DS(on)}$=2.4 mΩ	
	BSF030NE2LQ $R_{DS(on)}$=3.0 mΩ		BSZ033NE2LS5 $R_{DS(on)}$=3.3 mΩ	BSC026NE2LS5 $R_{DS(on)}$=2.6 mΩ	IRF8252 $R_{DS(on)}$=2.7 mΩ
	BSF035NE2LQ $R_{DS(on)}$=3.5 mΩ		BSZ036NE2LS $R_{DS(on)}$=3.6 mΩ	BSC032NE2LS $R_{DS(on)}$=3.2 mΩ	
	IRF6811STRPBF** $R_{DS(on)}$=3.7 mΩ		BSZ037NE2LS5**** $R_{DS(on)}$= 3.7mΩ		
			BSZ039NE2LS5**** $R_{DS(on)}$ = 3.9 mΩ		
4-10	IRF6802SD $R_{DS(on)}$=4.2 mΩ				
	IRF6710S2TRPBF $R_{DS(on)}$=4.5 mΩ		IRFHM8228TRPBF $R_{DS(on)}$=5.2 mΩ	BSC050NE2LS $R_{DS(on)}$=5.0 mΩ	
	IRF6712STRPBF $R_{DS(on)}$=4.9 mΩ		BSZ060NE2LS $R_{DS(on)}$=6.0 mΩ		
	IRF6810STRPBF** $R_{DS(on)}$=5.2 mΩ		IRFHM8235TRPBF $R_{DS(on)}$=7.7 mΩ		
> 10		IRFHS8242 $R_{DS(on)}$=13 mΩ			

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* Optimized for resonant applications (e.g. LLC converter)
** Monolithically integrated Schottky-like diode
*** $R_{DS(on)}$ max @ V_{GS}=4.5 V
****For more information on the product, contact our product support

1) 2.5 V_{GS} capable
2) Coming soon
3) Source-Down

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 25/30 V in Power Stage 3x3 and 5x6

Part number	Package	Monolithically integrated Schottky like diode	BV_{DSS} [V]	$R_{DS(on),max.}$ [mΩ] @ V_{GS}=4.5 V max.		Q_g [nC] @ V_{GS}=4.5 V typ.	
				High-side	Low-side	High-side	Low-side
BSZ0910ND	PQFN 3x3	–	30	13	13	4.0	4.0
BSZ0909ND	PQFN 3x3	–	30	25	25	1.8	1.8
BSC0910NDI	SuperSO8	✓	25	5.9	1.6	7.7	25.0
BSC0911ND	SuperSO8	–	25	4.8	1.7	7.7	25.0
BSC0921NDI	SuperSO8	✓	30	7.0	2.1	5.8	21.0
BSC0923NDI	SuperSO8	✓	30	7.0	3.7	5.2	12.2
BSC0924NDI	SuperSO8	✓	30	7.0	5.2	5.2	8.6
BSC0925ND	SuperSO8	–	30	6.4	6.4	5.2	6.7
BSC0993ND	SuperSO8	–	30	7.0	7.0	5.4	6.7

OptiMOS™ and StrongIRFET™ 25/30 V in Power Block 5x6

Part number	Package	Monolithically integrated Schottky like diode	BV_{DSS} [V]	$R_{DS(on),max.}$ [mΩ] @ V_{GS}=4.5 V max.		Q_g [nC] @ V_{GS}=4.5 V typ.	
				High-side	Low-side	High-side	Low-side
BSG0810NDI	SuperSO8	✓	25	4.0	1.2	5.6	16.0
BSG0811ND	SuperSO8	–	25	4.0	1.1	5.6	20.0
BSG0813NDI	SuperSO8	✓	25	4.0	1.7	5.6	12.0

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For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 30 V logic level

$R_{DS(on),\ max.}$ @ V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-220
<1			IPB009N03L G $R_{DS(on)}$=0.95 mΩ	
1-2		IRLS3813TRLPBF $R_{DS(on)}$=1.95 mΩ		IRLB3813PBF $R_{DS(on)}$=1.95 mΩ
2-4	IRLR8743TRPBF $R_{DS(on)}$=3.1 mΩ	IRFR8314TRPBF $R_{DS(on)}$=2.2 mΩ		IRLB8314PBF $R_{DS(on)}$=2.4 mΩ
	IPD031N03L G $R_{DS(on)}$=3.1 mΩ			IRL3713PBF $R_{DS(on)}$=3.0 mΩ
		IPB034N03L G $R_{DS(on)}$=3.4 mΩ		IRLB8743PBF $R_{DS(on)}$=3.2 mΩ
	IPD040N03L G $R_{DS(on)}$=4.0 mΩ			IPP034N03L G $R_{DS(on)}$=3.4 mΩ
4-10	IPD050N03L G $R_{DS(on)}$=5.0 mΩ	IPB042N03L G $R_{DS(on)}$=4.2 mΩ		IPP042N03L G $R_{DS(on)}$=4.2 mΩ
	IRLR8726TRPBF $R_{DS(on)}$=5.8 mΩ	IPB055N03L G $R_{DS(on)}$=5.5 mΩ		IRLB8748PBF $R_{DS(on)}$=4.8 mΩ
	IPD060N03L G $R_{DS(on)}$=6.0 mΩ	IPB065N03L G $R_{DS(on)}$=6.5 mΩ		IPP055N03L G $R_{DS(on)}$=5.5 mΩ
	IPD075N03L G $R_{DS(on)}$=7.5 mΩ	IPB080N03L G $R_{DS(on)}$=8.0 mΩ		IRL8113PBF $R_{DS(on)}$=6.0 mΩ
	IRLR8729TRPBF $R_{DS(on)}$=8.9 mΩ			IRLB8721PBF $R_{DS(on)}$=8.7 mΩ
	IPD090N03L G $R_{DS(on)}$=9.0 mΩ			
10-25	IPD135N03L G $R_{DS(on)}$=13.5 mΩ			
	IRLR3103 $R_{DS(on)}$=19.0 mΩ			

OptiMOS™ and StrongIRFET™ 30 V logic level

$R_{DS(on),\ max.}$ @ V_{GS}=10 V [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
<1			BSC005N03LS5* $R_{DS(on)}$=0.5 mΩ	IPT004N03L $R_{DS(on)}$=0.4 mΩ
			BSC005N03LS5I* $R_{DS(on)}$=0.5 mΩ	
1-2			ISC011N03L5S $R_{DS(on)}$=1.1 mΩ	
			IRFH8303TRPBF $R_{DS(on)}$=1.1 mΩ	
			BSC011N03LS $R_{DS(on)}$=1.1 mΩ	
			BSC011N03LSI** $R_{DS(on)}$=1.1 mΩ	
			BSC011N03LST*** $R_{DS(on)}$=1.1 mΩ	
	IRF8301MTRPBF $R_{DS(on)}$=1.5 mΩ		IRFH8307TRPBF $R_{DS(on)}$=1.3 mΩ	
	IRF6726MTRPBF $R_{DS(on)}$=1.7 mΩ	BSZ0500NSI** $R_{DS(on)}$=1.5 mΩ	BSC0500NSI** $R_{DS(on)}$=1.3 mΩ	
	IRF6727MTRPBF $R_{DS(on)}$=1.7 mΩ	BSZ019N03LS $R_{DS(on)}$=1.9 mΩ	BSC014N03LS G $R_{DS(on)}$=1.4 mΩ	
	IRF8302MTRPBF** $R_{DS(on)}$=1.8 mΩ	ISZ019N03L5S $R_{DS(on)}$=1.9 mΩ	IRFH5301TRPBF $R_{DS(on)}$=1.85 mΩ	
		BSZ0901NS $R_{DS(on)}$=2.0 mΩ	ISC019N03L5S $R_{DS(on)}$=1.9 mΩ	
		BSZ0501NSI** $R_{DS(on)}$=2.0 mΩ	BSC0901NS $R_{DS(on)}$=1.9 mΩ	
			BSC0501NSI** $R_{DS(on)}$=1.9 mΩ	
			BSC0901NSI** $R_{DS(on)}$=2.0 mΩ	
2-4			ISC026N03L5S $R_{DS(on)}$=2.6 mΩ	
			ISC037N03L5IS $R_{DS(on)}$=3.7 mΩ	
		ISZ040N03L5IS $R_{DS(on)}$=4.0 mΩ	ISC045N03L5S $R_{DS(on)}$=4.5 mΩ	
4-10		ISZ065N03L5S $R_{DS(on)}$=6.5 mΩ		

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* Coming soon
** Monolithically integrated Schottky-like diode
***For more information on the product, contact our product support

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 30 V logic level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	SO-8	SO-8 Dual	PQFN 2 x 2
2-4	IRF8304MTRPBF $R_{DS(on)}$=2.2 mΩ	BSZ0901NSI** $R_{DS(on)}$=2.1 mΩ	BSC020N03LS G $R_{DS(on)}$=2.0 mΩ			ISK036N03LM5[2] $R_{DS(on)}$=3.6 mΩ
			IRFH5302TRPBF $R_{DS(on)}$=2.1 mΩ			
	IRF6724MTRPBF $R_{DS(on)}$=2.5 mΩ	IRLHM620TRPBF $R_{DS(on)}$=2.5 mΩ	BSC0502NSI** $R_{DS(on)}$=2.4 mΩ			
	IRF8306MTRPBF** $R_{DS(on)}$=2.5 mΩ	BSZ0902NS $R_{DS(on)}$=2.6 mΩ	BSC025N03LS G $R_{DS(on)}$=2.5 mΩ			
			IRFH5302DTRPBF** $R_{DS(on)}$=2.5 mΩ			
			BSC0902NS $R_{DS(on)}$=2.6 mΩ			
			IRF8252TRPBF $R_{DS(on)}$=2.7 mΩ			
		BSZ0902NSI** $R_{DS(on)}$=2.8 mΩ	BSC0902NSI** $R_{DS(on)}$=2.8 mΩ	IRF8788TRPBF $R_{DS(on)}$=2.8 mΩ		
		BSZ0502NSI** $R_{DS(on)}$=2.8 mΩ	IRFH8316TRPBF $R_{DS(on)}$=2.95 mΩ			
			BSC030N03LS G $R_{DS(on)}$= 3.0 mΩ			
		BSZ0503NSI** $R_{DS(on)}$=3.4 mΩ	IRFH8318TRPBF $R_{DS(on)}$=3.1 mΩ			
		IRLHM630*** $R_{DS(on)}$= 3.5 mΩ	BSC0503NSI** $R_{DS(on)}$=3.2 mΩ	IRF7862TRPBF $R_{DS(on)}$=3.3 mΩ		
		BSZ035N03LS G $R_{DS(on)}$=3.5 mΩ	BSC034N03LS G $R_{DS(on)}$=3.4 mΩ	IRF8734TRPBF $R_{DS(on)}$=3.5 mΩ		
		IRFHM830 $R_{DS(on)}$= 3.8 mΩ	BSC0504NSI** $R_{DS(on)}$=3.7 mΩ			
		BSZ0904NSI** $R_{DS(on)}$=4.0 mΩ	BSC0904NSI** $R_{DS(on)}$=3.7 mΩ			
4-10	IRF6722MTRPBF $R_{DS(on)}$= 7.7 mΩ	IRFHM830D $R_{DS(on)}$= 4.3 mΩ	IRFH8324TRPBF $R_{DS(on)}$=4.1 mΩ			
		BSZ0506NS $R_{DS(on)}$=4.4 mΩ	BSC042N03LS G $R_{DS(on)}$=4.2 mΩ			
		IRFHM8326TRPBF $R_{DS(on)}$=4.7 mΩ	BSC0906NS $R_{DS(on)}$=4.5 mΩ			
			IRFH5304TRPBF $R_{DS(on)}$=4.5 mΩ			
			IRFH8321TRPBF $R_{DS(on)}$=4.9 mΩ			
		BSZ050N03LS G $R_{DS(on)}$=5.0 mΩ	IRFH8325TRPBF $R_{DS(on)}$=5.0 mΩ	IRF8736TRPBF $R_{DS(on)}$=4.8 mΩ		
		BSZ058N03LS G $R_{DS(on)}$=5.8 mΩ	BSC050N03LS G $R_{DS(on)}$=5.0 mΩ			
		IRFHM8329TRPBF $R_{DS(on)}$=6.1 mΩ	BSC052N03LS $R_{DS(on)}$=5.2 mΩ			
		BSZ065N03LS $R_{DS(on)}$=6.5 mΩ	BSC057N03LS G $R_{DS(on)}$=5.7 mΩ			
	IRF8327S $R_{DS(on)}$= 7.3 mΩ	IRFHM8330TRPBF $R_{DS(on)}$=6.6 mΩ	IRFH8330TRPBF $R_{DS(on)}$=6.6 mΩ			
		BSZ0994NS $R_{DS(on)}$= 7.0 mΩ	BSC080N03LS G $R_{DS(on)}$=8.0 mΩ			
		IRFHM831 $R_{DS(on)}$= 7.8 mΩ	IRFH8334TRPBF $R_{DS(on)}$=9.0 mΩ	IRF8721TRPBF $R_{DS(on)}$=8.5 mΩ		
		BSZ088N03LS G $R_{DS(on)}$=8.8 mΩ	BSC090N03LS G $R_{DS(on)}$=9.0 mΩ	IRF8714TRPBF $R_{DS(on)}$=8.7 mΩ		
		IRFHM8334TRPBF $R_{DS(on)}$=9.0 mΩ	BSC0909NS $R_{DS(on)}$=9.2 mΩ			
		BSZ100N03LS G $R_{DS(on)}$=10.0 mΩ				
10-63		BSZ0909NS $R_{DS(on)}$=12.0 mΩ	BSC120N03LS G $R_{DS(on)}$=12.0 mΩ	IRF8707TRPBF $R_{DS(on)}$=11.9 mΩ	IRF7907TRPBF $R_{DS(on)}$=11.8 mΩ+16.4 mΩ	IRLHS6342*** $R_{DS(on)}$= 16 mΩ
		IRFHM8337TRPBF $R_{DS(on)}$=12.4 mΩ	IRFH8337TRPBF $R_{DS(on)}$=12.8 mΩ	IRL6342[1]*** $R_{DS(on)}$ = 14.6 mΩ	IRF8513TRPBF**** $R_{DS(on)}$=2.7 mΩ+15.5 mΩ	IRFHS8342 $R_{DS(on)}$= 16 mΩ
		BSZ130N03LS G $R_{DS(on)}$=13.0 mΩ		IRL6372[1]*** $R_{DS(on)}$ = 18 mΩ; dual	IRF8313TRPBF $R_{DS(on)}$=15.5 mΩ+15.5 mΩ	IRLHS6376*** $R_{DS(on)}$= 63 mΩ; dual
		IRFHM8363TRPBF $R_{DS(on)}$=14.9 mΩ			IRF7905TRPBF $R_{DS(on)}$=17.1 mΩ+21.8 mΩ	
2 x 7.2			BSC072N03LD G $R_{DS(on)}$=7.2 mΩ			
2 x 15			BSC150N03LD G $R_{DS(on)}$=15.0 mΩ			

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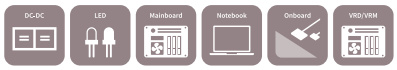
** Monolithically integrated Schottky-like diode
*** $R_{DS(on)}$ max @V_{GS}=4.5 V
****For more information on the product, contact our product support

1) 2.5 V_{GS} capable
2) Coming soon

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 30 V logic level 5 V optimized



$R_{DS(on),max.}$ @V_{GS}=10 V [mΩ]	PQFN 3.3 x 3.3	SuperSO8	SO-8	SO-8 Dual
1-2		BSC016N03MS G $R_{DS(on)}$ =1.6 mΩ		
		BSC020N03MS G $R_{DS(on)}$ =2.0 mΩ		
2-4		BSC025N03MS G $R_{DS(on)}$ =2.5 mΩ	BSO033N03MS G $R_{DS(on)}$ =3.3 mΩ	
	BSZ035N03MS G $R_{DS(on)}$ =3.5 mΩ	BSC030N03MS G $R_{DS(on)}$ =3.0 mΩ	BSO040N03MS G $R_{DS(on)}$ =4.0 mΩ	
4-10		BSC042N03MS G $R_{DS(on)}$ =4.2 mΩ		
	BSZ050N03MS G $R_{DS(on)}$ =5.0 mΩ	BSC057N03MS G $R_{DS(on)}$ =5.7 mΩ		
		BSC080N03MS G $R_{DS(on)}$ =8.0 mΩ		
	BSZ058N03MS G $R_{DS(on)}$ =5.8 mΩ	BSC090N03MS G $R_{DS(on)}$ =9.0 mΩ		
	BSZ088N03MS G $R_{DS(on)}$ =8.8 mΩ	BSC100N03MS G $R_{DS(on)}$ =10.0 mΩ		
	BSZ100N03MS G $R_{DS(on)}$ =10.0 mΩ			
>10	BSZ130N03MS G $R_{DS(on)}$ =13.0 mΩ	BSC120N03MS G $R_{DS(on)}$ =12.0 mΩ	BSO110N03MS G $R_{DS(on)}$ =11.0 mΩ	BSO150N03MD G $R_{DS(on)}$ =15.0 mΩ
				BSO220N03MD G $R_{DS(on)}$ =22.0 mΩ

OptiMOS™ and StrongIRFET™ 40 V normal level

$R_{DS(on),max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-220	TO-247	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	TO-220 FullPAK
<1			IRF40SC240 $R_{DS(on)}$=0.65 mΩ						
			IRFS7430TRL7PP $R_{DS(on)}$ =0.75 mΩ						
1-2		IRFS7430TRLPBF $R_{DS(on)}$ =1.3 mΩ	IRFS7434TRL7PP $R_{DS(on)}$ =1.0 mΩ	IRFB7430PBF $R_{DS(on)}$ =1.3 mΩ	IRFP7430PBF $R_{DS(on)}$ =1.3 mΩ	IRL40DM247 $R_{DS(on)}$ =1.0 mΩ		IRFH7084TRPBF $R_{DS(on)}$ =1.25 mΩ	
		IPB015N04N G $R_{DS(on)}$ =1.5 mΩ	IPB011N04N G $R_{DS(on)}$ =1.1 mΩ	IPP015N04N G $R_{DS(on)}$ =1.5 mΩ		IRF7739L1TRPBF $R_{DS(on)}$ =1.0 mΩ		IRFH7004TRPBF $R_{DS(on)}$ =1.4 mΩ	
		IRFS3004 $R_{DS(on)}$ =1.75 mΩ	IRFS3004-7P $R_{DS(on)}$ =1.25 mΩ	IRFB7434PBF $R_{DS(on)}$ =1.6 mΩ		IRF7480MTRPBF $R_{DS(on)}$ =1.2 mΩ		BSC017N04NS G $R_{DS(on)}$ =1.7 mΩ	
		IRFS7434TRLPBF $R_{DS(on)}$ =1.6 mΩ	IRFS7437TRL7PP $R_{DS(on)}$ =1.4 mΩ	IRFB3004PBF $R_{DS(on)}$ =1.75 mΩ		IRF7946TRPBF $R_{DS(on)}$ =1.4 mΩ		IRF40H210 $R_{DS(on)}$ =1.7 mΩ	
		IRFS7437TRLPBF $R_{DS(on)}$ =1.8 mΩ	IPB020N04N G $R_{DS(on)}$ =2.0 mΩ	IRFB7437PBF $R_{DS(on)}$ =2.0 mΩ		BSB015N04NX3 G $R_{DS(on)}$ =1.5 mΩ		BSC019N04NS G $R_{DS(on)}$ =1.9 mΩ	
						IRF40DM229 $R_{DS(on)}$=1.85 mΩ			
2-4	IRFR7440TRPBF $R_{DS(on)}$ =2.4 mΩ	IRFS7440TRLPBF $R_{DS(on)}$ =2.5 mΩ		IPP023N04N G $R_{DS(on)}$ =2.3 mΩ		IRF7483MTRPBF $R_{DS(on)}$ =2.3 mΩ		IRFH7440TRPBF $R_{DS(on)}$ =2.4 mΩ	IPA028N04NM3S $R_{DS(on)}$ =2.8 mΩ
	IRFR7446TRPBF $R_{DS(on)}$ =3.9 mΩ	IRF1404S $R_{DS(on)}$ =4.0 mΩ		IRFB7440PBF $R_{DS(on)}$ =2.5 mΩ				IRFH5004TRPBF $R_{DS(on)}$=2.6 mΩ	
				IRFB7446PBF $R_{DS(on)}$ =3.3 mΩ				BSC030N04NS G $R_{DS(on)}$ =3.0 mΩ	
								IRFH7446TRPBF $R_{DS(on)}$ =3.3 mΩ	
4-10				IPP041N04N G $R_{DS(on)}$ =4.1 mΩ				BSC054N04NS G $R_{DS(on)}$=5.4 mΩ	IPA041N04N G $R_{DS(on)}$=4.1 mΩ
	IRF40R207 $R_{DS(on)}$ =5.1 mΩ			IRF40B207 $R_{DS(on)}$ =4.5 mΩ				IRF40H233 $R_{DS(on)}$=5.9 mΩ, dual	
				IPP048N04N G $R_{DS(on)}$=4.8 mΩ				BSC076N04ND $R_{DS(on)}$ =7.6 mΩ, dual	
>10							BSZ105N04NS G $R_{DS(on)}$ =10.5 mΩ		
							BSZ165N04NS G $R_{DS(on)}$ =16.5 mΩ		

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OptiMOS™ and StrongIRFET™ 40 V logic level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-220	TO-247	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
<1			IRL40SC228 $R_{DS(on)}$ =0.65 mΩ			IRL7472L1TRPBF $R_{DS(on)}$ =0.45 mΩ		BSC007N04LS6 $R_{DS(on)}$=0.7 mΩ	IRL40T209 $R_{DS(on)}$= 0.8 mΩ
			IRL40SC209 $R_{DS(on)}$ =0.8 mΩ						
1-2		IPB015N04L G $R_{DS(on)}$ =1.5 mΩ	IPB011N04L G $R_{DS(on)}$ =1.1 mΩ	IRL40B209 $R_{DS(on)}$ =1.25 mΩ	IRLP3034PBF $R_{DS(on)}$ =1.7 mΩ	BSB014N04LX3 G $R_{DS(on)}$ =1.4 mΩ		BSC010N04LS $R_{DS(on)}$ =1.0 mΩ	
		IRLS3034TRLPBF $R_{DS(on)}$ =1.7 mΩ	IRLS3034TRL7P $R_{DS(on)}$ =1.4 mΩ	IRLB3034PBF $R_{DS(on)}$ =1.7 mΩ		IRL7486MTRPBF $R_{DS(on)}$ =1.4 mΩ		BSC010N04LS6 $R_{DS(on)}$ =1.0 mΩ	
		IRL40S212 $R_{DS(on)}$ =1.9 mΩ		IRL40B212 $R_{DS(on)}$ =1.9 mΩ				BSC010N04LST $R_{DS(on)}$=1.0 mΩ	
								BSC010N04LSI $R_{DS(on)}$ =1.05 mΩ	
								BSC010N04LSC* $R_{DS(on)}$= 1.05 mΩ	
								BSC014N04LST $R_{DS(on)}$ =1.4 mΩ	
								BSC014N04LS $R_{DS(on)}$ =1.4 mΩ	
								BSC014N04LSI $R_{DS(on)}$ =1.45 mΩ	
								ISC015N04NM5 $R_{DS(on)}$ =1.5 mΩ	
								BSC016N04LS G $R_{DS(on)}$ =1.6 mΩ	
								ISC017N04NM5 $R_{DS(on)}$ =1.7 mΩ	
								BSC018N04LS G $R_{DS(on)}$ =1.8 mΩ	
							BSZ018N04LS6 $R_{DS(on)}$=1.8 mΩ	ISC019N04NM5 $R_{DS(on)}$ =1.9 mΩ	
								BSC019N04LS $R_{DS(on)}$ =1.9 mΩ	
								BSC019N04LST $R_{DS(on)}$ =1.9 mΩ	
2-4				IRL40B215 $R_{DS(on)}$ =2.7 mΩ		IRF6613TRPBF $R_{DS(on)}$=3.4 mΩ	BSZ021N04LS6 $R_{DS(on)}$ =2.1 mΩ	BSC022N04LS $R_{DS(on)}$ =2.2 mΩ	
							BSZ024N04LS6 $R_{DS(on)}$ =2.4 mΩ	BSC022N04LS6 $R_{DS(on)}$ =2.2 mΩ	
								IRLH5034TRPBF $R_{DS(on)}$=2.4 mΩ	
				IPP039N04L G $R_{DS(on)}$ =3.9 mΩ			BSZ025N04LS $R_{DS(on)}$ =2.5 mΩ	BSC026N04LS $R_{DS(on)}$ =2.6 mΩ	
							BSZ028N04LS $R_{DS(on)}$ =2.8 mΩ	BSC027N04LS G $R_{DS(on)}$ =2.7 mΩ	
								ISC028N04NM5 $R_{DS(on)}$ =2.8 mΩ	
								BSC032N04LS $R_{DS(on)}$ =3.2 mΩ	
	IPD036N04L G $R_{DS(on)}$=3.6 mΩ	IRL1404S $R_{DS(on)}$ =4.0 mΩ					BSZ034N04LS $R_{DS(on)}$ =3.4 mΩ	BSC035N04LS G $R_{DS(on)}$ =3.5 mΩ	
								ISC036N04NM5 $R_{DS(on)}$ =3.6 mΩ	
4-10								ISC046N04NM5 $R_{DS(on)}$ =4.6 mΩ	
	IRLR3114ZTRPBF $R_{DS(on)}$ =4.5 mΩ					IRF6616TRPBF $R_{DS(on)}$ =5.0 mΩ	BSZ040N04LS G $R_{DS(on)}$ =4.0 mΩ	BSC050N04LS G $R_{DS(on)}$ =5.0 mΩ	
								ISC058N04NM5 $R_{DS(on)}$ =5.8 mΩ	
						IRF6614TRPBF $R_{DS(on)}$=8.3 mΩ	BSZ063N04LS6 $R_{DS(on)}$ =6.3 mΩ	BSC059N04LS G $R_{DS(on)}$ =5.9 mΩ	
								BSC059N04LS6 $R_{DS(on)}$ =5.9 mΩ	
								BSC072N04LD $R_{DS(on)}$=7.2 mΩ, dual	
							BSZ097N04LS G $R_{DS(on)}$ =9.7 mΩ	BSC093N04LS G $R_{DS(on)}$ =9.3 mΩ	

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* Increased creepage distance

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OptiMOS™ and StrongIRFET™ 60 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-262 (I^2PAK)	TO-220	TO-220 FullPAK	TO-247
1-2			IPB010N06N [2] $R_{DS(on)}$=1.0 mΩ				
			IRF60C241 $R_{DS(on)}$=1.3 mΩ				
			IRFS7530TRL7PP $R_{DS(on)}$=1.4 mΩ				
			IPB014N06N [2] $R_{DS(on)}$=1.4 mΩ				
			IPB017N06N3 G $R_{DS(on)}$=1.7 mΩ				
		IRFS7530TRLPBF $R_{DS(on)}$=2.0 mΩ	IRFS7534TRL7PP [2] $R_{DS(on)}$=1.95 mΩ	IPI020N06N [2] $R_{DS(on)}$=2.0 mΩ	IRFB7530PBF $R_{DS(on)}$=2.0 mΩ		IRFP7530PBF $R_{DS(on)}$=2.0 mΩ
2-4	IPD025N06N [2] $R_{DS(on)}$=2.5 mΩ	IRFS7534TRLPBF $R_{DS(on)}$=2.4 mΩ	IRFS3006TRL7PP $R_{DS(on)}$=2.1 mΩ		IPP020N06N [2] $R_{DS(on)}$=2.0 mΩ		
		IRFS3006 $R_{DS(on)}$=2.5 mΩ		IPI024N06N3 G $R_{DS(on)}$=2.4 mΩ	IRFB7534PBF $R_{DS(on)}$=2.4 mΩ		
					IPP024N06N3 G [2] $R_{DS(on)}$=2.4 mΩ		
		IPB026N06N [2] $R_{DS(on)}$=2.6 mΩ			IRFB3006PBF $R_{DS(on)}$=2.5 mΩ		IRFP3006PBF $R_{DS(on)}$=2.5 mΩ
		IPB029N06N3 G $R_{DS(on)}$=2.9 mΩ		IPI029N06N [2] $R_{DS(on)}$=2.9 mΩ	IPP029N06N [2] $R_{DS(on)}$=2.9 mΩ	IPA029N06N [2] $R_{DS(on)}$=2.9 mΩ	IRFP3206PBF $R_{DS(on)}$=3.0 mΩ
					IRFB3206BF $R_{DS(on)}$=3.0 mΩ	IPA029N06NM5S $R_{DS(on)}$=2.9 mΩ	
	IPD033N06N [2] $R_{DS(on)}$=3.3 mΩ	IRFS3206 $R_{DS(on)}$=3.0 mΩ		IPI032N06N3 G $R_{DS(on)}$=3.2 mΩ	IPP032N06N3 G $R_{DS(on)}$=3.2 mΩ	IPA032N06N3 G $R_{DS(on)}$=3.2 mΩ	
	IPD034N06N3 G $R_{DS(on)}$=3.4 mΩ	IRFS7537TRLPBF $R_{DS(on)}$=3.3 mΩ			IRFB7537PBF $R_{DS(on)}$=3.3 mΩ		IRFP7537PBF $R_{DS(on)}$=3.3 mΩ
					IRFB3256PBF $R_{DS(on)}$=3.4 mΩ		
	IPD038N06N3 G $R_{DS(on)}$=3.8 mΩ	IPB037N06N3 G $R_{DS(on)}$=3.7 mΩ			IPP040N06N3 G $R_{DS(on)}$=4.0 mΩ	IPA040N06N [2] $R_{DS(on)}$=4.0 mΩ	
		IRFS3306 $R_{DS(on)}$=4.2 mΩ		IPI040N06N3 G $R_{DS(on)}$=4.0 mΩ	IPP040N06N [2] $R_{DS(on)}$=4.0 mΩ	IPA040N06N M5S $R_{DS(on)}$=4.0 mΩ	
					IRFB3306PBF $R_{DS(on)}$=4.2 mΩ		IRFP3306PBF $R_{DS(on)}$=4.2 mΩ
4-10	IRFR7540TRPBF $R_{DS(on)}$=4.8 mΩ	IRFS7540TRLPBF $R_{DS(on)}$=5.1 mΩ			IRFB7540PBF $R_{DS(on)}$=5.1 mΩ	IPA057N06N3 G $R_{DS(on)}$=5.7 mΩ	
	IPD053N06N [2] $R_{DS(on)}$=5.3 mΩ	IPB054N06N3 G $R_{DS(on)}$=5.4 mΩ			IPP057N06N3 G [2] $R_{DS(on)}$=5.7 mΩ		
		IPB057N06N [2] $R_{DS(on)}$=5.7 mΩ			IRFB7545PBF $R_{DS(on)}$=5.9 mΩ		
	IRFR7546TRPBF $R_{DS(on)}$=7.9 mΩ	IRF1018ES $R_{DS(on)}$=8.4 mΩ			IPP060N06N [2] $R_{DS(on)}$=6.0 mΩ	IPA060N06N [2] $R_{DS(on)}$=6.0 mΩ	
	IRFR1018E $R_{DS(on)}$=8.4 mΩ				IRFB7546PBF $R_{DS(on)}$=7.3 mΩ		
					IRF1018EPBF $R_{DS(on)}$=8.4 mΩ	IPA060N06NM5S $R_{DS(on)}$=6.0 mΩ	
	IPD088N06N3 G $R_{DS(on)}$=8.8 mΩ				IRF60B217 $R_{DS(on)}$=9.0 mΩ	IPA093N06N3 G $R_{DS(on)}$=9.3 mΩ	
	IRF60R217 $R_{DS(on)}$=9.9 mΩ	IPB090N06N3 G $R_{DS(on)}$=9.0 mΩ			IPP093N06N3 G $R_{DS(on)}$=9.3 mΩ		
>10	IRFR3806 $R_{DS(on)}$=15.8 mΩ	IRFS3806 $R_{DS(on)}$=15.8 mΩ			IRFB3806PBF $R_{DS(on)}$=15.8 mΩ		

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2) 6 V rated ($R_{DS(on)}$ also specified @ V_{GS}=6 V)

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 60 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SO-8	SuperSO8	TO-Leadless
<1					IPT007N06N [2] $R_{DS(on)}$=0.7 mΩ
1-2	IRF7749L1TRPBF $R_{DS(on)}$=1.5 mΩ			BSC012N06NS $R_{DS(on)}$=1.2 mΩ	IPT012N06N [2] $R_{DS(on)}$=1.2 mΩ
				BSC014N06NS [2] $R_{DS(on)}$=1.4 mΩ	
				BSC014N06NST [2] $R_{DS(on)}$=1.45 mΩ	
				BSC016N06NST [2] $R_{DS(on)}$=1.6 mΩ	
				BSC016N06NS [2] $R_{DS(on)}$=1.6 mΩ	
				BSC019N06NS [2] $R_{DS(on)}$=1.9 mΩ	
2-4	IRF7748L1TRPBF $R_{DS(on)}$=2.2 mΩ	BSZ039N06NS $R_{DS(on)}$=3.9 mΩ		BSC028N06NS [2] $R_{DS(on)}$=2.8 mΩ	
				BSC028N06NST [2] $R_{DS(on)}$=2.8 mΩ	
	BSB028N06NN3 G $R_{DS(on)}$=2.8 mΩ			BSC031N06NS3 G $R_{DS(on)}$=3.1 mΩ	
	IRF60DM206 $R_{DS(on)}$=2.9 mΩ			IRFH7085TRPBF $R_{DS(on)}$=3.2 mΩ	
				BSC034N06NS [2] $R_{DS(on)}$=3.4 mΩ	
	IRF7580MTRPBF $R_{DS(on)}$=3.6 mΩ			BSC039N06NS [2] $R_{DS(on)}$=3.9 mΩ	
4-10				IRFH5006TRPBF $R_{DS(on)}$=4.1 mΩ	
	IRF6648 $R_{DS(on)}$=7.0 mΩ	BSZ042N06NS [2] $R_{DS(on)}$=4.2 mΩ	IRF7855TRPBF $R_{DS(on)}$=9.4 mΩ	IRLH5036TRPBF $R_{DS(on)}$=4.4 mΩ	
	IRF6674 $R_{DS(on)}$=11.0 mΩ			IRFH7545TRPBF $R_{DS(on)}$=5.2 mΩ	
		BSZ068N06NS [2] $R_{DS(on)}$=6.8 mΩ		BSC066N06NS [2] $R_{DS(on)}$=6.6 mΩ	
				BSC076N06NS3 G $R_{DS(on)}$=7.6 mΩ	
		BSZ100N06NS [2] $R_{DS(on)}$=10.0 mΩ	IRF7351TRPBF $R_{DS(on)}$=17.8 mΩ, dual	BSC097N06NS [2] $R_{DS(on)}$=9.7 mΩ	
				BSC097N06NST [2] $R_{DS(on)}$=9.7 mΩ	
>10		BSZ110N06NS3 G $R_{DS(on)}$=11.0 mΩ		BSC110N06NS3 G $R_{DS(on)}$=11.0 mΩ	
				IRFH5406TRPBF $R_{DS(on)}$=14.4 mΩ	
				BSC155N06ND $R_{DS(on)}$=15.5 mΩ, dual	

OptiMOS™ and StrongIRFET™ 60 V logic level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-262 (I^2PAK)	TO-220	PQFN 2 x 2	PQFN 3.3 x 3.3	SuperSO8
1-2			IRL60SC216 $R_{DS(on)}$=1.5 mΩ					
		IPB019N06L3 G $R_{DS(on)}$=1.9 mΩ	IPB016N06L3 G $R_{DS(on)}$=1.6 mΩ					
		IRL60S216 $R_{DS(on)}$=1.95 mΩ	IRLS3036TRL7PP $R_{DS(on)}$=1.9 mΩ	IRL60SL216 $R_{DS(on)}$=1.95 mΩ	IRL60B216 $R_{DS(on)}$=1.9 mΩ			
2-4		IRLS3036TRLPBF $R_{DS(on)}$=2.4 mΩ			IRLB3036PBF $R_{DS(on)}$=2.4 mΩ		BSZ037N06LS5 $R_{DS(on)}$=3.7 mΩ	BSC027N06LS5 $R_{DS(on)}$=2.7 mΩ
	IPD031N06L3 G $R_{DS(on)}$=3.1 mΩ	IPB034N06L3 G $R_{DS(on)}$=3.4 mΩ			IPP037N06L3 G $R_{DS(on)}$=3.7 mΩ			BSC028N06LS3 G $R_{DS(on)}$=2.8 mΩ
4-10	IPD048N06L3 G $R_{DS(on)}$=4.8 mΩ				IPP052N06L3 G $R_{DS(on)}$=5.2 mΩ		BSZ040N06LS5 $R_{DS(on)}$=4.0 mΩ	IRLH5036TRPBF $R_{DS(on)}$=4.4 mΩ
	IRLR3636TRPBF $R_{DS(on)}$=6.8 mΩ						BSZ065N06LS5 $R_{DS(on)}$=6.5 mΩ	BSC065N06LS5 $R_{DS(on)}$=6.5 mΩ
	IPD079N06L3 G $R_{DS(on)}$=7.9 mΩ	IPB081N06L3 G $R_{DS(on)}$=8.1 mΩ		IPI084N06L3 G $R_{DS(on)}$=8.4 mΩ	IPP084N06L3 G $R_{DS(on)}$=8.4 mΩ		BSZ067N06LS3 G $R_{DS(on)}$=6.7 mΩ	BSC067N06LS3 G $R_{DS(on)}$=6.7 mΩ
							BSZ099N06LS5 $R_{DS(on)}$=9.9 mΩ	BSC094N06LS5 $R_{DS(on)}$=9.4 mΩ
							BSZ100N06LS3 G $R_{DS(on)}$=10.0 mΩ	BSC100N06LS3 G $R_{DS(on)}$=10.0 mΩ
>10	IPD220N06L3 G $R_{DS(on)}$=22.0 mΩ					IRL60HS118 $R_{DS(on)}$=17.0 mΩ		BSC112N06LD $R_{DS(on)}$=11.2 mΩ, dual
	IPD350N06L G $R_{DS(on)}$=35.0 mΩ							

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2) 6 V rated ($R_{DS(on)}$ also specified @ V_{GS} = 6 V)

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 75 V normal level

$R_{DS(on)}$, max. @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-220	TO-247	DirectFET™	SuperSO8
1-2		IPB020NE7N3 G $R_{DS(on)}$ =2.0 mΩ	IRFS7730TRL7PP $R_{DS(on)}$ =2.0 mΩ		IRFP7718PBF $R_{DS(on)}$ =1.8 mΩ		
					IRFP4368PBF $R_{DS(on)}$ =1.85 mΩ		
2-4		IRFS7730TRLPBF $R_{DS(on)}$ =2.6 mΩ	IRFS3107TRL7PP $R_{DS(on)}$ =2.6 mΩ	IPP023NE7N3 G $R_{DS(on)}$ =2.3 mΩ	IRFP3077PBF $R_{DS(on)}$ =3.3 mΩ	IRF7759L2TRPBF $R_{DS(on)}$ =2.3 mΩ	
		IRFS3107TRLPBF $R_{DS(on)}$ =3.0 mΩ		IRFB7730PBF $R_{DS(on)}$ =2.6 mΩ			
		IPB031NE7N3 G $R_{DS(on)}$ =3.1 mΩ	IRFS7734TRL7PP $R_{DS(on)}$ =3.05 mΩ	IRFB3077PBF $R_{DS(on)}$ =3.3 mΩ			BSC036NE7NS3 G $R_{DS(on)}$ =3.6 mΩ
		IRFS7734TRLPBF $R_{DS(on)}$ =3.5 mΩ		IPP034NE7N3 G $R_{DS(on)}$ =3.4 mΩ			
				IRFB7734PBF $R_{DS(on)}$ =3.5 mΩ			
4-10		IRFS3207ZTRLPBF $R_{DS(on)}$ =4.1 mΩ		IRFB3207ZPBF $R_{DS(on)}$ =4.5 mΩ			
		IPB049NE7N3 G $R_{DS(on)}$ =4.9 mΩ		IPP052NE7N3 G $R_{DS(on)}$ =5.2 mΩ			BSC042NE7NS3 G $R_{DS(on)}$ =4.2 mΩ
		IRFS3307ZTRLPBF $R_{DS(on)}$ =5.8 mΩ		IRFB3307ZPBF $R_{DS(on)}$ =5.8 mΩ			
		IRFS7762TRLPBF $R_{DS(on)}$ =6.7 mΩ		IPP062NE7N3 G $R_{DS(on)}$ =6.2 mΩ		IRF7780MTRPBF $R_{DS(on)}$ =5.7 mΩ	IRFH5007TRPBF $R_{DS(on)}$ =5.9 mΩ
	IRFR7740TRPBF $R_{DS(on)}$ =7.2 mΩ			IRFB7740PBF $R_{DS(on)}$ =7.3 mΩ			
		IRFS7787TRLPBF $R_{DS(on)}$ =8.4 mΩ		IRFB7787PBF $R_{DS(on)}$ =8.4 mΩ			IRFH7787TRPBF $R_{DS(on)}$ =8.0 mΩ
	IRFR3607PBF $R_{DS(on)}$ =9.0 mΩ	IRFS3607TRLPBF $R_{DS(on)}$ =9.0 mΩ		IRFB3607PBF $R_{DS(on)}$ =9.0 mΩ			
>10	IRFR7746TRPBF $R_{DS(on)}$ =11.2 mΩ			IRFB7746PBF $R_{DS(on)}$ =10.6 mΩ		BSF450NE7NH3 [1] $R_{DS(on)}$ =45.0 mΩ	

OptiMOS™ and StrongIRFET™ 80 V normal level – logic level

$R_{DS(on)}$, max. @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-262 (I^2PAK)	TO-220	TO-220 FullPAK	DirectFET™	PQFN 2 x 2	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
1-2		IPB017N08N5 $R_{DS(on)}$ =1.7 mΩ	IPB015N08N5 $R_{DS(on)}$ =1.5 mΩ								IPT012N08N5 $R_{DS(on)}$ =1.2 mΩ
		IPB020N08N5 $R_{DS(on)}$ =2.0 mΩ	IPB019N08N3 G $R_{DS(on)}$ =1.9 mΩ		IPP020N08N5 $R_{DS(on)}$ =2.0 mΩ					BSC021N08NS5 $R_{DS(on)}$ =2.1 mΩ	IPT019N08N5 $R_{DS(on)}$ =1.9 mΩ
			IPB019N08N5 $R_{DS(on)}$ =1.95 mΩ								
2-4		IPB024N08N5 $R_{DS(on)}$ =2.4 mΩ			IPP023N08N5 $R_{DS(on)}$ =2.3 mΩ					BSC025N08LS5 $R_{DS(on)}$ =2.5 mΩ	
		IPB025N08N3 G $R_{DS(on)}$ =2.5 mΩ	IPB030N08N3 G $R_{DS(on)}$ =3.0 mΩ		IPP027N08N5 $R_{DS(on)}$ =2.7 mΩ					BSC026N08NS5 $R_{DS(on)}$ =2.6 mΩ	
					IPP028N08N3 G $R_{DS(on)}$ =2.8 mΩ	IPA028N08N3 G $R_{DS(on)}$ =2.8 mΩ				BSC030N08NS5 $R_{DS(on)}$ =3.0 mΩ	IPT029N08N5 $R_{DS(on)}$ =2.9 mΩ
		IPB031N08N5 $R_{DS(on)}$ =3.1 mΩ			IPP034N08N5 $R_{DS(on)}$ =3.4 mΩ					BSC037N08NS5 $R_{DS(on)}$ =3.7 mΩ	
										BSC037N08NS5T $R_{DS(on)}$= 3.7 mΩ	
		IPB035N08N3 G $R_{DS(on)}$ =3.5 mΩ		IPI037N08N3 G $R_{DS(on)}$ =3.7 mΩ	IPP037N08N3 G $R_{DS(on)}$ =3.7 mΩ	IPA037N08N3 G $R_{DS(on)}$ =3.7 mΩ				BSC040N08NS5 $R_{DS(on)}$ =4.0 mΩ	
4-10	IPD046N08N5 $R_{DS(on)}$ =4.6 mΩ	IPB049N08N5 $R_{DS(on)}$ =4.9 mΩ			IPP052N08N5 $R_{DS(on)}$ =5.2 mΩ	IPA040N08NM5S $R_{DS(on)}$ =4.0 mΩ	BSB044N08NN3 G $R_{DS(on)}$ =4.4 mΩ			BSC047N08NS3 G $R_{DS(on)}$ =4.7 mΩ	
	IPD053N08N3 G $R_{DS(on)}$ =5.3 mΩ	IPB054N08N3 G $R_{DS(on)}$ =5.4 mΩ			IPP057N08N3 G $R_{DS(on)}$ =5.7 mΩ	IPA052N08NM5S $R_{DS(on)}$ =5.2 mΩ				BSC052N08NS5 $R_{DS(on)}$ =5.2 mΩ	
		IPB067N08N3 G $R_{DS(on)}$ =6.7 mΩ				IPA057N08N3 G $R_{DS(on)}$ =5.7 mΩ			BSZ070N08LS5 $R_{DS(on)}$ =7.0 mΩ	BSC057N08NS3 G $R_{DS(on)}$ =5.7 mΩ	
							IRF6646TRPBF $R_{DS(on)}$ =9.5 mΩ		BSZ075N08NS5 $R_{DS(on)}$ =7.5 mΩ	BSC061N08NS5 $R_{DS(on)}$ =6.1 mΩ	
	IPD096N08N3 G $R_{DS(on)}$ =9.6 mΩ				IPP100N08N3 G $R_{DS(on)}$ =9.7 mΩ		IRF7854TRPBF $R_{DS(on)}$ =9.5 mΩ		BSZ084N08NS5 $R_{DS(on)}$ =8.4 mΩ	BSC072N08NS5 $R_{DS(on)}$ =7.2 mΩ	
>10							BSB104N08NP3 G $R_{DS(on)}$ =10.4 mΩ	IRL80HS120 $R_{DS(on)}$ =32.0 mΩ	BSZ110N08NS5 $R_{DS(on)}$ =11.0 mΩ	BSC117N08NS5 $R_{DS(on)}$ =11.7 mΩ	
	IPD135N08N3 G $R_{DS(on)}$ =13.5 mΩ								BSZ123N08NS3 G $R_{DS(on)}$ =12.3 mΩ	BSC123N08NS3 G $R_{DS(on)}$ =12.3 mΩ	
									BSZ340N08NS3 G $R_{DS(on)}$ =34.0 mΩ	BSC340N08NS3 G $R_{DS(on)}$ =34.0 mΩ	

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1) DirectFET™ S

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 100 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-262 (I^2PAK)	TO-220	TO-220 FullPAK	TO-247
1-2		IPB020N10N5 $R_{DS(on)}$=2.0 mΩ	IPB017N10N5 $R_{DS(on)}$=1.7 mΩ				IRF100P218 $R_{DS(on)}$=1.1 mΩ
		IPB020N10N5LF $R_{DS(on)}$=2.0 mΩ	IPB017N10N5LF $R_{DS(on)}$=1.7 mΩ				IRF100P219 $R_{DS(on)}$=2.1 mΩ
2-4		IPB027N10N3 G $R_{DS(on)}$=2.7 mΩ	IPB024N10N5 $R_{DS(on)}$=2.4 mΩ		IPP023N10N5 $R_{DS(on)}$=2.3 mΩ		IRFP4468PBF $R_{DS(on)}$=2.6 mΩ
		IPB027N10N5 $R_{DS(on)}$=2.7 mΩ	IPB025N10N3 G $R_{DS(on)}$=2.5 mΩ	IPI030N10N3 G $R_{DS(on)}$=3.0 mΩ	IPP030N10N3 G $R_{DS(on)}$=3.0 mΩ	IPA030N10N3 G $R_{DS(on)}$=3.0 mΩ	
		IPB033N10N5LF $R_{DS(on)}$=3.3 mΩ	IPB032N10N5 $R_{DS(on)}$=3.2 mΩ		IPP030N10N5 $R_{DS(on)}$=3.0 mΩ		
			IPB039N10N3 G $R_{DS(on)}$=3.9 mΩ		IPP039N10N5 $R_{DS(on)}$=3.9 mΩ		
4-10	IPD050N10N5 $R_{DS(on)}$=5.0 mΩ	IPB042N10N3 G $R_{DS(on)}$=4.2 mΩ	IRFS4010TRL7PP $R_{DS(on)}$=4.0 mΩ	IPI045N10N3 G $R_{DS(on)}$=4.5 mΩ	IRF100B201 $R_{DS(on)}$=4.2 mΩ	IPA045N10N3 G $R_{DS(on)}$=4.5 mΩ	IRFP4110PBF $R_{DS(on)}$=4.5 mΩ
	IPD068N10N3 G $R_{DS(on)}$=6.8 mΩ	IRF100S201 $R_{DS(on)}$=4.2 mΩ			IRFB4110PBF $R_{DS(on)}$=4.5 mΩ	IPA050N10NM5S $R_{DS(on)}$=5.0 mΩ	IRFP4310ZPBF $R_{DS(on)}$=6.0 mΩ
		IRFS4010TRLPBF $R_{DS(on)}$=4.7 mΩ			IPP045N10N3 G $R_{DS(on)}$=4.5 mΩ		
		IPB065N10N3 G $R_{DS(on)}$=6.5 mΩ			IRFB4310ZPBF $R_{DS(on)}$=6.0 mΩ		
		IRFS4310ZTRLPBF $R_{DS(on)}$=7.0 mΩ		IPI072N10N3 G $R_{DS(on)}$=7.2 mΩ	IPP072N10N3 G $R_{DS(on)}$=7.2 mΩ	IPA083N10N5 $R_{DS(on)}$=8.3 mΩ	
	IPD082N10N3 G $R_{DS(on)}$=8.2 mΩ				IPP083N10N5 $R_{DS(on)}$=8.3 mΩ	IPA083N10NM5S $R_{DS(on)}$=8.3 mΩ	
		IPB083N10N3 G $R_{DS(on)}$=8.3 mΩ		IPI086N10N3 G $R_{DS(on)}$=8.6 mΩ	IPP086N10N3 G $R_{DS(on)}$=8.6 mΩ	IPA086N10N3 G $R_{DS(on)}$=8.6 mΩ	
					IRF100B202 $R_{DS(on)}$=8.6 mΩ		
		IRFS4410ZTRLPBF $R_{DS(on)}$=9.0 mΩ			IRFS4410ZTRLPBF $R_{DS(on)}$=9.0 mΩ		
					IRFB4410ZPBF $R_{DS(on)}$=9.0 mΩ		
10-25	IPD122N10N3 G $R_{DS(on)}$=12.2 mΩ						
	IPD12CN10N G $R_{DS(on)}$=12.4 mΩ	IPB123N10N3 G $R_{DS(on)}$=12.3 mΩ					
	IRFR4510TRPBF $R_{DS(on)}$=13.9 mΩ	IRFS4510TRLPBF $R_{DS(on)}$=13.9 mΩ			IRFB4510PBF $R_{DS(on)}$=13.5 mΩ	IPA126N10NM3S $R_{DS(on)}$=12.6 mΩ	
				IPI180N10N3 G $R_{DS(on)}$=18.0 mΩ			
	IPD25CN10N G $R_{DS(on)}$=25.0 mΩ						
>25	IPD33CN10N G $R_{DS(on)}$=33.0 mΩ					IRFI4212H-117P $R_{DS(on)}$=72.5 mΩ, HB [1]	
	IPD78CN10N G $R_{DS(on)}$=78.0 mΩ						

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1) HB = Half-bridge

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 100 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	SuperSO8 dual cool	SO-8	TO-Leadless
1-2						IPT015N10N5 $R_{DS(on)}$ =1.5 mΩ
			BSC027N10NS5 $R_{DS(on)}$ =2.7 mΩ			IPT020N10N3 $R_{DS(on)}$ =2.0 mΩ
						IPT020N10N5 $R_{DS(on)}$ =2.0 mΩ
2-4	IRF7769L1TRPBF $R_{DS(on)}$ =3.5 mΩ		BSC035N10NS5 $R_{DS(on)}$ =3.5 mΩ	BSC040N10NS5SC $R_{DS(on)}$ =4.0 mΩ		IPT026N10N5 $R_{DS(on)}$ =2.6 mΩ
			BSC040N10NS5 $R_{DS(on)}$ =4.0 mΩ			
4-10			BSC050N10N5* $R_{DS(on)}$ =5.0 mΩ			
	BSB056N10NN3 G $R_{DS(on)}$ =5.6 mΩ		BSC060N10NS3 G $R_{DS(on)}$ =6.0 mΩ			
			BSC070N10NS3 G $R_{DS(on)}$ =7.0 mΩ	BSC070N10NS5SC $R_{DS(on)}$) =7.0 mΩ		
			BSC070N10NS5 $R_{DS(on)}$ =7.0 mΩ			
			IRFH5010TRPBF $R_{DS(on)}$ =9.0 mΩ			
		BSZ097N10NS5 $R_{DS(on)}$ =9.7 mΩ	BSC098N10NS5 $R_{DS(on)}$ =9.8 mΩ			
10-25			BSC100N10NSF G $R_{DS(on)}$ =10.0 mΩ			
	IRF6644TRPBF $R_{DS(on)}$ =13.0 mΩ		BSC109N10NS3 G $R_{DS(on)}$ =10.9 mΩ			
			BSC118N10NS G $R_{DS(on)}$ =11.8 mΩ			
			IRFH5110TRPBF $R_{DS(on)}$ =12.4 mΩ			
	BSF134N10NJ3 G [1] $R_{DS(on)}$ =13.4 mΩ		IRFH7110TRPBF $R_{DS(on)}$ =13.5 mΩ			
			IRFH5210TRPBF $R_{DS(on)}$ =14.9 mΩ			
		BSZ160N10NS3 G $R_{DS(on)}$ =16.0 mΩ	BSC160N10NS3 G $R_{DS(on)}$ =16.0 mΩ			
	IRF6662TRPBF $R_{DS(on)}$ =22.0 mΩ		BSC196N10NS G $R_{DS(on)}$ =19.6 mΩ		IRF7853TRPBF $R_{DS(on)}$ =18.0 mΩ	
>25	IRF6645TRPBF $R_{DS(on)}$ =35.0 mΩ	BSZ440N10NS3 G $R_{DS(on)}$ =44.0 mΩ	BSC252N10NSF G $R_{DS(on)}$=25.2 mΩ			
	IRF7665S2TRPBF $R_{DS(on)}$ =62.0 mΩ		BSC440N10NS3 G $R_{DS(on)}$ =44.0 mΩ			
2 x 75	IRF6665TRPBF $R_{DS(on)}$ =63.0 mΩ		BSC750N10ND G $R_{DS(on)}$ =75.0 mΩ; dual			
2 x 195		IRFHM792TRPBF $R_{DS(on)}$ =195.0 mΩ, dual				

OptiMOS™ and StrongIRFET™ 100 V logic level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-220	PQFN 2 x 2	PQFN 3.3 x 3.3	SuperSO8
2-4			IRLS4030TRL7PP $R_{DS(on)}$ =3.9 mΩ				BSC034N10LS5 $R_{DS(on)}$ =3.4 mΩ
4-10		IRLS4030TRLPBF $R_{DS(on)}$ =4.3 mΩ		IRLB4030PBF $R_{DS(on)}$ =4.3 mΩ		BSZ096N10LS5 $R_{DS(on)}$ =9.6 mΩ	BSC070N10LS5 $R_{DS(on)}$=7.0 mΩ
							IRLH5030TRPBF $R_{DS(on)}$=9.0 mΩ
							BSC096N10LS5 $R_{DS(on)}$=9.6 mΩ
10-25				IPP12CN10L G $R_{DS(on)}$ =12.0 mΩ		BSZ146N10LS5 $R_{DS(on)}$ =14.6 mΩ	BSC123N10LS G $R_{DS(on)}$ =12.3 mΩ
	IRLR3110ZTRPBF $R_{DS(on)}$ =14.0 mΩ					BSZ150N10LS3 G $R_{DS(on)}$ =15.0 mΩ	BSC146N10LS5 $R_{DS(on)}$ =14.6 mΩ
>25					IRL100HS121 $R_{DS(on)}$=42.0 mΩ		BSC265N10LSF G $R_{DS(on)}$ =26.5 mΩ

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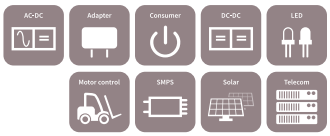
For more details on the product, click on the part number.



OptiMOS™ and StrongIRFET™ 120 V normal level / logic level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	TO-262 (I^2PAK)	TO-220	PQFN 3.3 x 3.3	SuperSO8
2-4		IPB038N12N3 G $R_{DS(on)}$=3.8 mΩ	IPB036N12N3 G $R_{DS(on)}$=3.6 mΩ				
4-10				IPI041N12N3 G $R_{DS(on)}$=4.1 mΩ	IPP041N12N3 G $R_{DS(on)}$=4.1 mΩ		BSC077N12NS3 G $R_{DS(on)}$=7.7 mΩ
					IPP048N12N3 G $R_{DS(on)}$=4.8 mΩ		BSC080N12LS* $R_{DS(on)}$=8.0 mΩ
				IPI076N12N3 G $R_{DS(on)}$=7.6 mΩ	IPP076N12N3 G $R_{DS(on)}$=7.6 mΩ		
10-25	IPD110N12N3 G $R_{DS(on)}$=11.0 mΩ				IPP114N12N3 G $R_{DS(on)}$=11.4 mΩ		BSC120N12LS* $R_{DS(on)}$=12.0 mΩ
		IPB144N12N3 G $R_{DS(on)}$=14.4 mΩ		IPI147N12N3 G $R_{DS(on)}$=14.7 mΩ	IPP147N12N3 G $R_{DS(on)}$=14.7 mΩ	BSZ240N12NS3 G $R_{DS(on)}$=24.0 mΩ	BSC190N12NS3 G $R_{DS(on)}$=19.0 mΩ

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* logic level devices

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 135-150 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
4-10			BSC074N15NS5 [3] $R_{DS(on)}$=7.4 mΩ	IPT059N15N3 $R_{DS(on)}$ = 5.9 mΩ
			BSC093N15NS5 $R_{DS(on)}$=9.3 mΩ	
10-25	IRF7779L2TRPBF [5] $R_{DS(on)}$=11.0 mΩ		BSC110N15NS5 $R_{DS(on)}$=11.0 mΩ	
			BSC160N15NS5 $R_{DS(on)}$=16.0 mΩ	
	BSB165N15NZ3 G $R_{DS(on)}$=16.5 mΩ		BSC190N15NS3 G $R_{DS(on)}$=19.0 mΩ	
>25	BSB280N15NZ3 G $R_{DS(on)}$=28.0 mΩ	BSZ300N15NS5 $R_{DS(on)}$=30.0 mΩ	BSC360N15NS3 G $R_{DS(on)}$=36.0 mΩ	
	IRF6643TRPBF $R_{DS(on)}$=34.5 mΩ	BSZ520N15NS3 G $R_{DS(on)}$=52.0 mΩ	BSC520N15NS3 G $R_{DS(on)}$=52.0 mΩ	
	IRF6775MTRPBF $R_{DS(on)}$=56.0 mΩ	BSZ900N15NS3 G $R_{DS(on)}$=90.0 mΩ		

OptiMOS™ and StrongIRFET™ 135-150 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-263 (D^2PAK 7-pin)	SuperSO8	TO-251 (IPAK)	TO-262 (I^2PAK)	TO-220	TO-220 FullPAK	TO-247
4-10		IPB048N15N5 $R_{DS(on)}$=4.8 mΩ	IPB044N15N5 $R_{DS(on)}$=4.4 mΩ			IPI051N15N5 $R_{DS(on)}$=5.1 mΩ	IPP051N15N5 [2] $R_{DS(on)}$=5.1 mΩ		IRF150P220 $R_{DS(on)}$=2.5mΩ
		IPB048N15N5LF $R_{DS(on)}$=4.8 mΩ	IRF135SA204 [5] $R_{DS(on)}$ =5.9 mΩ						IRF150P221 $R_{DS(on)}$=4.8mΩ
		IPB072N15N3 G $R_{DS(on)}$ =7.2 mΩ	IPB060N15N5 $R_{DS(on)}$=6.0 mΩ	BSC074N15NS5 $R_{DS(ON)}$ =7.4 mΩ		IPI075N15N3 G $R_{DS(on)}$ =7.5 mΩ	IPP075N15N3 G $R_{DS(on)}$ =7.5 mΩ		IRFP4568PBF $R_{DS(on)}$ =5.9 mΩ
		IPB073N15N5 $R_{DS(on)}$=7.3 mΩ	IPB065N15N3 G $R_{DS(on)}$ =6.5 mΩ			IPI076N15N5 $R_{DS(on)}$=7.6 mΩ	IPP076N15N5 $R_{DS(on)}$=7.6 mΩ	IPA075N15N3 G $R_{DS(on)}$ =7.5 mΩ	
		IPB083N15N5LF $R_{DS(on)}$=8.3 mΩ							
		IRF135S203 [5] $R_{DS(on)}$ =8.4 mΩ					IRF135B203 [5] $R_{DS(on)}$ =8.4 mΩ		
							IRFB4115PBF $R_{DS(on)}$ =11.0 mΩ		
10-25		IPB108N15N3 G $R_{DS(on)}$ =10.8 mΩ	IRFS4115TRL7PP $R_{DS(on)}$ =11.8 mΩ			IPI111N15N3 G $R_{DS(on)}$ =11.1 mΩ	IPP111N15N3 G $R_{DS(on)}$ =11.1 mΩ	IPA105N15N3 G $R_{DS(on)}$ =10.5 mΩ	
		IRFS4321 $R_{DS(on)}$ =15.0 mΩ	IRFS4321TRL7PP $R_{DS(on)}$ =14.7 mΩ				IRFB4321PBF $R_{DS(on)}$ =15.0 mΩ		IRFP4321PBF $R_{DS(on)}$ =15.5 mΩ
		IRFS4115TRLPBF $R_{DS(on)}$ =12.1 mΩ					IRFB4228PBF $R_{DS(on)}$ =15.0 mΩ		
	IPD200N15N3 G $R_{DS(on)}$ =20.0 mΩ	IPB200N15N3 G $R_{DS(on)}$ =20.0 mΩ					IPP200N15N3 G [2] $R_{DS(on)}$ =20.0 mΩ		
>25		IRFS4615PBF $R_{DS(on)}$ =42.0 mΩ		IRFH5015TRPBF $R_{DS(on)}$ =31.0 mΩ			IRFB4615PBF $R_{DS(on)}$ =39.0 mΩ		
	IRFR4615 $R_{DS(on)}$ =42.0 mΩ	IRFS5615PBF $R_{DS(on)}$ =42.0 mΩ			IRFU4615PBF $R_{DS(on)}$ =42.0 mΩ		IRFB5615PBF $R_{DS(on)}$ =39.0 mΩ		
	IPD530N15N3 G $R_{DS(on)}$ =53.0 mΩ	IPB530N15N3 G $R_{DS(on)}$ =53.0 mΩ		IRFH5215TRPBF $R_{DS(on)}$ =58.0 mΩ		IPI530N15N3 G [2] $R_{DS(on)}$ =53.0 mΩ	IPP530N15N3 G [2] $R_{DS(on)}$ =53.0 mΩ		
							IRFB4019PBF $R_{DS(on)}$ =95.0 mΩ		

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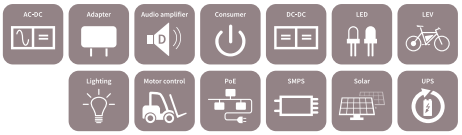
2) 8 V rated ($R_{DS(on)}$ also specified @ V_{GS} = 8 V)
3) Coming soon
5) 135 V

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 200 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-262 (I^2PAK)	TO-220	TO-220 FullPAK	TO-247
4-10						IRF200P222 $R_{DS(on)}$=6.6 mΩ
						IRFP4668PBF $R_{DS(on)}$ =9.7 mΩ
10-25		IPB107N20N3 G $R_{DS(on)}$ =10.7 mΩ	IPI110N20N3 G $R_{DS(on)}$ =11.0 mΩ	IPP110N20N3 G $R_{DS(on)}$ =11.0 mΩ		IRF200P223 $R_{DS(on)}$=11.5 mΩ
		IPB107N20NA [4] $R_{DS(on)}$ =10.7 mΩ		IPP110N20NA $R_{DS(on)}$ =11.0 mΩ		
		IPB110N20N3LF $R_{DS(on)}$=11.0 mΩ		IPP120N20NFD $R_{DS(on)}$ =12.0 mΩ		IRFP4127PBF $R_{DS(on)}$ =21.0 mΩ
		IPB117N20NFD $R_{DS(on)}$ =11.7 mΩ		IRFB4127PBF $R_{DS(on)}$ =20.0 mΩ		IRFP4227PBF $R_{DS(on)}$ =25.0 mΩ
		IPB156N22NFD [2] $R_{DS(on)}$ =15.6 mΩ				
		IRFS4127TRLPBF $R_{DS(on)}$ =22.0 mΩ				
>25		IRFS4227TRLPBF $R_{DS(on)}$ =26.0 mΩ		IRFB4227PBF $R_{DS(on)}$ =26.0 mΩ	IPA320N20NM3S $R_{DS(on)}$ =32.0 mΩ	
	IPD320N20N3 G $R_{DS(on)}$ =32.0 mΩ	IPB320N20N3 G $R_{DS(on)}$ =32.0 mΩ	IPI320N20N3 G $R_{DS(on)}$ =32.0 mΩ	IPP320N20N3 G $R_{DS(on)}$ =32.0 mΩ	IRFI4020H-117P $R_{DS(on)}$ =100 mΩ, HB	
				IRFB4620PBF $R_{DS(on)}$ =72.5 mΩ		
	IRFR4620TRLPBF $R_{DS(on)}$ =78.0 mΩ	IRFS4620TRLPBF $R_{DS(on)}$ =78.0 mΩ		IRFB5620PBF $R_{DS(on)}$ =72.5 mΩ		
		IRFS4020TRLPBF $R_{DS(on)}$ =105.0 mΩ		IRFB4020PBF $R_{DS(on)}$ =100.0 mΩ		
				IRF200B211 $R_{DS(on)}$ =170.0 mΩ		



OptiMOS™ and StrongIRFET™ 200 V normal level

$R_{DS(on),\ max.}$ @V_{GS}=10 V [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	SO-8	TO-Leadless
10-25			BSC220N20NSFD $R_{DS(on)}$=22.0 mΩ		IPT111N20NFD $R_{DS(on)}$=11.1 mΩ
>25			BSC320N20NS3 G $R_{DS(on)}$ =32.0 mΩ		
			BSC350N20NSFD $R_{DS(on)}$=35.0 mΩ		
			BSC500N20NS3G $R_{DS(on)}$ =50.0 mΩ		
	IRF6641TRPBF $R_{DS(on)}$ =59.9 mΩ		IRFH5020 $R_{DS(on)}$ =55.0 mΩ		
		BSZ900N20NS3 G $R_{DS(on)}$ =90.0 mΩ	BSC900N20NS3 G $R_{DS(on)}$ =90.0 mΩ	IRF7820TRPBF $R_{DS(on)}$ =78.0 mΩ	
	IRF6785TRPBF $R_{DS(on)}$ =100.0 mΩ	BSZ12DN20NS3 G $R_{DS(on)}$ =125.0 mΩ	BSC12DN20NS3 G $R_{DS(on)}$ =125.0 mΩ		
		BSZ22DN20NS3 G $R_{DS(on)}$ =225.0 mΩ	BSC22DN20NS3 G $R_{DS(on)}$ =225.0 mΩ		

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2) 220 V rated
4) Part qualified according to AEC Q101

For more details on the product, click on the part number.

OptiMOS™ and StrongIRFET™ 250 V normal level

$R_{DS(on)}$, max. @V_{GS}=10 V [mΩ]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-262 (I^2PAK)	TO-220	TO-220 FullPAK	TO-247	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
10-25		IPB200N25N3 G $R_{DS(on)}$ =20.0 mΩ	IPI200N25N3 G $R_{DS(on)}$ =20.0 mΩ	IPP200N25N3 G $R_{DS(on)}$ =20.0 mΩ		IRF250P224 $R_{DS(on)}$=12.0 mΩ			
				IPP220N25NFD $R_{DS(on)}$ =22.0 mΩ		IRFP4768PBF $R_{DS(on)}$ =17.5 mΩ			IPT210N25NFD $R_{DS(on)}$=21.0 mΩ
						IRF250P225 $R_{DS(on)}$=22.0 mΩ			
>25								BSC430N25NSFD $R_{DS(on)}$=43.0 mΩ	
		IRFS4229TRLPBF $R_{DS(on)}$ =48.0 mΩ		IRFB4332PBF $R_{DS(on)}$ =33.0 mΩ		IRFP4332PBF $R_{DS(on)}$ =33.0 mΩ		BSC600N25NS3 G $R_{DS(on)}$ =60.0 mΩ	
	IPD600N25N3 G $R_{DS(on)}$ =60.0 mΩ	IPB600N25N3 G $R_{DS(on)}$ =60.0 mΩ	IPI600N25N3 G $R_{DS(on)}$ =60.0 mΩ	IRFB4229PBF $R_{DS(on)}$ =46.0 mΩ				BSC670N25NSFD $R_{DS(on)}$=67.0 mΩ	
				IPP600N25N3 G $R_{DS(on)}$ =60.0 mΩ	IPA600N25NM3S $R_{DS(on)}$=60.0 mΩ	IRFP4229PBF $R_{DS(on)}$ =46.0 mΩ	BSZ16DN25NS3 G $R_{DS(on)}$ =165.0 mΩ	IRFH5025 $R_{DS(on)}$ =100.0 mΩ	
							BSZ42DN25NS3 G $R_{DS(on)}$ =425.0 mΩ	BSC16DN25NS3 G $R_{DS(on)}$ =165.0 mΩ	

OptiMOS™ and StrongIRFET™ 300 V normal level

$R_{DS(on)}$, max. @ V_{GS}=10 V [mΩ]	TO-263 (D^2PAK)	TO-220	TO-247	SuperSO8
0-25			IRF300P226 $R_{DS(on)}$=19.0 mΩ	
>25	IPB407N30N $R_{DS(on)}$ =40.7 mΩ	IPP410N30N $R_{DS(on)}$ =41.0 mΩ	IRFP4868PBF $R_{DS(on)}$ =32.0 mΩ	
			IRF300P227 $R_{DS(on)}$=40.0 mΩ	
		IRFB4137PBF $R_{DS(on)}$ =69.0 mΩ	IRFP4137PBF $R_{DS(on)}$ =69.0 mΩ	BSC13DN30NSFD $R_{DS(on)}$=130.0 mΩ

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For more details on the product, click on the part number.

Power MOSFETs complementary

Voltage [V]			PQFN 3.3 x 3.3	SO-8
Complementary	-20/20	>50 mΩ	BSZ15DC02KD H*/** N: 55 mΩ, 5.1 A P: 150 mΩ, -3.2 A	
			BSZ215C H*/** N: 55 mΩ, 5.1 A P: 150 mΩ, -3.2 A	
	-60/60	11-30 Ω		BSO612CV G* N: 0.12 Ω, 3.0 A P: 0.30 Ω, -2.0 A
				BSO615C G* N: 0.11 Ω, 3.1 A P: 0.30 Ω, -2.0 A

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*Products are qualified to Automotive AEC Q101
**$R_{DS(on)}$ specified at 4.5 V

For more details on the product, click on the part number.

Power P-channel MOSFETs

Voltage [V]	TO-252 (DPAK)	TO-263 (D^2PAK)	TO-220	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	SO-8	PQFN 2 x 2
P-channel MOSFETs								
-20							BSO201SP H $R_{DS(on)}$=7.0 mΩ	
							BSO203SP H $R_{DS(on)}$=21.0 mΩ	
							BSO203P H $R_{DS(on)}$=21.0 mΩ	
								IRLHS2242TRPBF** $R_{DS(on)}$=31.0 mΩ
							BSO207P H $R_{DS(on)}$=45.0 mΩ	
							BSO211P H $R_{DS(on)}$=67.0 mΩ	
-30						BSC030P03NS3 G $R_{DS(on)}$=3.0 mΩ	IRF9310 $R_{DS(on)}$=4.6 mΩ	
	IPD042P03L3 G $R_{DS(on)}$=4.2 mΩ					BSC060P03NS3E G $R_{DS(on)}$=6.0 mΩ; ESD	IRF9317 $R_{DS(on)}$=6.6 mΩ	
					BSZ086P03NS3 G $R_{DS(on)}$=8.6 mΩ		IRF9321 $R_{DS(on)}$=7.2 mΩ	
	SPD50P03L G[1]* $R_{DS(on)}$=7.0 mΩ			IRF9395M $R_{DS(on)}$=7.0 mΩ; dual	BSZ086P03NS3E G $R_{DS(on)}$=8.6 mΩ		BSO080P03NS 3 G $R_{DS(on)}$=8.0 mΩ	
						BSC084P03NS3 G $R_{DS(on)}$=8.4 mΩ	BSO080P03NS3E G $R_{DS(on)}$=8.0 mΩ; ESD	
						BSC084P03NS3E G $R_{DS(on)}$=8.4 mΩ; ESD	BSO080P03S H $R_{DS(on)}$=8.0 mΩ	
					BSZ120P03NS3 G $R_{DS(on)}$=12.0 mΩ		BSO301SP H $R_{DS(on)}$=8.0 mΩ	
					BSZ120P03NS3E G $R_{DS(on)}$=12.0 mΩ; ESD		IRF9328 $R_{DS(on)}$=11.9 mΩ	
							IRF9388TRPBF $R_{DS(on)}$=11.9 mΩ	
							BSO130P03S H $R_{DS(on)}$=13.0 mΩ	
							IRF9358 $R_{DS(on)}$=16 mΩ; dual	
					IRFHM9331[2] $R_{DS(on)}$=15 mΩ		IRF9332 $R_{DS(on)}$=17.5 mΩ	
					BSZ180P03NS3 G $R_{DS(on)}$=18.0 mΩ		IRF9333 $R_{DS(on)}$=19.4 mΩ	
					BSZ180P03NS3E G $R_{DS(on)}$=18.0 mΩ; ESD		BSO200P03S H $R_{DS(on)}$=20.0 mΩ	
							BSO303SP H $R_{DS(on)}$=21.0 mΩ	IRFHS9301TRPBF $R_{DS(on)}$=37.0 mΩ
							BSO303P H $R_{DS(on)}$=21.0 mΩ; dual	
							IRF9362 $R_{DS(on)}$=21 mΩ; dual	IRFHS9351TRPBF $R_{DS(on)}$=170.0 mΩ; dual
							IRF9335 $R_{DS(on)}$=59 mΩ	
-60	IPD380P06NM $R_{DS(on)}$= 38 mΩ	IPB110P06LM $R_{DS(on)}$= 11 mΩ	SPP80P06P H* $R_{DS(on)}$=23.0 mΩ					
	IPD650P06NM $R_{DS(on)}$= 65 mΩ	SPB80P06P G* $R_{DS(on)}$=23.0 mΩ						
	SPD30P06P G* $R_{DS(on)}$=75.0 mΩ							
	IPD900P06NM $R_{DS(on)}$ = 90 mΩ							
	SPD18P06P G* $R_{DS(on)}$=130.0 mΩ	SPB18P06P G* $R_{DS(on)}$=130.0 mΩ	SPP18P06P H* $R_{DS(on)}$=130.0 mΩ				BSO613SPV G* $R_{DS(on)}$=130.0 mΩ	
	SPD09P06PL G* $R_{DS(on)}$=250.0 mΩ							
	IPD25DP06LM $R_{DS(on)}$ = 250 mΩ							
	IPD25DP06NM $R_{DS(on)}$ = 250 mΩ							
	SPD08P06P G* $R_{DS(on)}$=300.0 mΩ		SPP08P06P H* $R_{DS(on)}$=300.0 mΩ					
	IPD40DP06NM $R_{DS(on)}$ = 400 mΩ							
-100	SPD15P10PL G* $R_{DS(on)}$=200.0 mΩ		SPP15P10PL H* $R_{DS(on)}$=200.0 mΩ					
	SPD15P10P G* $R_{DS(on)}$=240.0 mΩ		SPP15P10P H* $R_{DS(on)}$=240.0 mΩ					
	SPD04P10PL G* $R_{DS(on)}$=850.0 mΩ							
	SPD04P10P G* $R_{DS(on)}$=1000.0 mΩ							

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* Products are qualified to Automotive AEC Q101
**$R_{DS(on)}$ specified at 4.5 V

1) 5-leg
2) 2.5 V_{GS} capable

For more details on the product, click on the part number.

Small signal/small power N-channel

Voltage [V]	SOT-223	TSOP-6	SOT-89	SC59	SOT-23	SOT-323	SOT-363
N-channel 20				BSR802N 23 mΩ, 3.7 A, ULL	IRLML6244* [1] 21 mΩ, 6.3 A, LL		
		BSL202SN 22 mΩ, 7.5 A, SLL		BSR202N 21 mΩ, 3.8 A, SLL	IRLML2502* [1] 45 mΩ, 4.2 A, SLL		
		IRLMS2002* [1] 30 mΩ, 6.5 A, SLL			IRLML6246* [1] 46 mΩ, 4.1 A, LL		
					BSS205N 50 mΩ, 2.5 A, SLL		BSD214SN 140 mΩ, 1.5 A, SLL
					BSS806NE 57 mΩ, 2.3 A, ULL, ESD		
		BSL806N** 82 mΩ, 2.3 A, ULL			BSS806N 57 mΩ, 2.3 A, ULL	BSS214NW 140 mΩ, 1.5 A, SLL	BSD235N 350 mΩ, 0.95 A, SLL, dual
		IRLMS1902* [1] 100 mΩ, 3.2 A, SLL			BSS214N 140 mΩ, 1.5 A, SLL	BSS816NW 160 mΩ, 1.4 A, ULL	BSD840N 400 mΩ, 0.88 A, ULL, dual
					IRLML2402* [1] 250 mΩ, 1.2 A, SLL		
25					IRFML8244* 24 mΩ, 5.8 A, NL		
30		IRLTS6342* [1] 17.5 mΩ, 8.3 A, LL			IRLML0030* 27 mΩ, 5.3 A, LL		BSD316SN 160 mΩ, 1.4A, LL
		IRFTS8342* 19 mΩ. 8.2 A, NL			IRLML6344* [1] 29 mΩ, 5.0 A, LL		
					BSS306N 57 mΩ, 2.3 A, LL		
					IRLML6346* [1] 63 mΩ, 3.4 A, LL		
		IRLMS1503* 100 mΩ, 3.2 A, LL			IRLML2030* 100 mΩ, 1.4 A, LL		
					BSS316N 160 mΩ, 1.4 A, LL		
					IRLML2803* 250 mΩ, 1.2 A, LL		
55					IRLML0040TRPBF* 56 mΩ,3.6 A, LL		
					BSS670S2L 650 mΩ, 0.54 A, LL	BSS340NW 400 mΩ, 0.88 A, LL	
60	BSP318S 90 mΩ, 2.6 A, LL	BSL606SN 60 mΩ, 4.5 A, LL	BSS606N 60 mΩ, 3.2 A, LL		IRLML0060* 92 mΩ, 2.7 A, LL	BSS138W 3.5 Ω, 0.28 A, LL	2N7002DW 3 Ω, 0.3 A, LL, dual
	BSP320S 120 mΩ, 2.9 A, NL				IRLML2060* 480 mΩ, 1.2 A, LL	SN7002W 5 Ω, 0.23 A, LL	
	BSP295 300 mΩ, 1.8 A, LL				BSS138N 3.5 Ω, 0.23 A, LL		
					BSS7728N 5 Ω, 0.2 A, LL		
					SN7002N 5 Ω, 0.2 A, LL		
					2N7002* 3 Ω, 0.3 A, LL		
					BSS159N 8 Ω, 0.13 A, depl.		
75	BSP716N 160 mΩ, 2.3 A, LL						
100	BSP372N 230 mΩ, 1.8 A, LL				IRLML0100* 220 mΩ, 1.6 A, LL		
	BSP373N 240 mΩ, 1.8 A, NL				BSS119N 6 Ω, 0.19 A, LL $V_{GS(th)}$ 1.8 V to 2.3 V		
	BSP296N 600 mΩ, 1.2 A, LL				BSS123N 6 Ω, 0.19 A, LL $V_{GS(th)}$ 0.8 V to 1.8 V		
					BSS169 12 Ω, 0.09 A, depl.		
150		IRF5802* 1.2 mΩ, 0.9 A, NL					
200	BSP297 1.8 Ω, 0.66 A, LL	IRF5801* 2.2 mΩ, 0.6 A, NL					
	BSP149 3.5 Ω,0.14 A, depl.						
240	BSP88 6 Ω, 0.35 A, 2.8 V rated		BSS87 6 Ω, 0.26 A, LL		BSS131 14 Ω, 0.1 A, LL		
	BSP89 6 Ω, 0.35 A, LL						
	BSP129 6 Ω, 0.05 A, depl.						
250					BSS139 30 Ω, 0.03 A, depl.		
400	BSP324 25 Ω, 0.17 A, LL						
500							
600	BSP125 45 Ω, 0.12 A, LL		BSS225 45 Ω, 0.09 A, LL		BSS127 500 Ω, 0.023 A, LL		
	BSP135 60 Ω, 0.02 A, depl.				BSS126 700 Ω, 0.007 A, depl.		
800							

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All products are qualified to Automotive AEC Q101 (except the parts marked with*)
1) $R_{DS(on)}$ specified at 4.5 V
** For more information on the product, contact our product support

For more details on the product, click on the part number.

Small signal/small power P-channel

	Voltage [V]	SOT-223	TSOP-6	SOT-89	SC59	SOT-23	SOT-323	SOT-363
P-channel MOSFETs	-250	BSP317P 4 Ω, -0.43 A, LL		BSS192P 12 Ω, -0.19 A, LL	BSR92P 11 Ω, -0.14 A, LL			
		BSP92P 12 Ω, -0.26 A, LL						
	-100	BSP321P 900 mΩ, -0.98 A, NL						
		BSP322P 800 mΩ, -1.0 A, LL						
		BSP316P 1.8 Ω, -0.68 A, LL			BSR316P 1.8 Ω, -0.36 A, LL			
	-60	ISP650P06NM 65 mΩ, -3.7 A, NL				ISS17EP06LM 1.7Ω, -0.3 A, LL		
		ISP12DP06NM 125 mΩ, -2.8 A, NL				BSS83P 2 Ω, -0.33 A, LL	BSS84PW 8 Ω, -0.15 A, LL	
		ISP13DP06NMS 125 mΩ, -2.8 A, NL				ISS55EP06LM 5.5 Ω, -0.18 A, NL		
		BSP613P 130 mΩ, 2.9 A, NL						
		ISP25DP06LM 250 mΩ, -1.9 A, LL				BSS84P 8 Ω, -0.17 A, LL		
		ISP25DP06NM 250 mΩ, -1.9 A, NL						
		ISP25DP06LMS 250 mΩ, -1.9 A, LL			BSR315P 800 mΩ, -0.62 A, LL			
		ISP26DP06NMS 260 mΩ, -1.9 A, NL						
		BSP171P 300 mΩ, -1.9 A, LL						
		BSP170P 300 mΩ, -1.9 A, NL						
		ISP75DP06LM 750 mΩ, -1.1 A, LL						
		BSP315P 800 mΩ, -1.17 A, LL						
	-40		IRF5803TRPBF* 112 mΩ, -3.4 A, LL					
	-30		IRFTS9342TRPBF* 40 mΩ, -5.8 A, LL			IRLML9301TRPBF* 64 mΩ, -3.6 A, LL		BSD314SPE 140 mΩ, -1.5 A, LL, ESD
			BSL307SP 43 mΩ, -5.5 A, LL			BSS308PE 80 mΩ, -2.1 A, LL, ESD		
			BSL308PE 80 mΩ, -2.1 A, LL, dual, ESD			IRLML5203TRPBF* 98 mΩ, -3.0 A, LL		
						BSS314PE 140 mΩ, -1.5 A, LL, ESD		
						BSS315P 150 mΩ, -1.5 A, LL		
						IRLML9303TRPBF* 165 mΩ, -2.3 A, LL		
						IRLML5103TRPBF* 600 mΩ, -0.76 A, LL		
	-20		IRLTS2242* [1] 32 mΩ, -6.9 A, SLL					
			BSL207SP [1] 41 mΩ, -6 A, SLL			IRLML2244* [1] 54 mΩ, 4.3 A, LL		
			IRLMS6802* [1] 50 mΩ, -5.6 A, SLL			IRLML6402* [1] 65 mΩ, -3.7 A, SLL	BSS209PW [1] 550 mΩ, -0.58 A, SLL	BSV236SP [1] 175 mΩ, -1.5 A, SLL
			BSL211SP [1] 67 mΩ, -4.7 A, SLL			IRLML2246* [1] 135 mΩ, 2.6 A, LL	BSS223PW [1] 1.2 Ω, -0.39 A, SLL	BSD223P [1] 1.2 Ω, -0.39 A, SLL, dual
			IRLMS6702* [1] 200 mΩ, -2.4 A, SLL			BSS215P [1] 150 mΩ, -1.5 A, SLL		
						IRLML6302* [1] 600 mΩ, -0.78 A, SLL		
	-12					IRLML6401* [1] 50 mΩ, -4.3 A, SLL		

Small signal/small power complementary

	Voltage [V]	TSOP-6	SOT-363
Complementary	-20/20	BSL215C N: 140 mΩ, 1.5 A, SLL P: 150 mΩ, 1.5 A, SLL	BSD235C N: 350 mΩ, 0.95 A, SLL P: 1.2 Ω, 0.53 A, SLL
	-30/30	BSL308C N: 57 mΩ, 2.3 A, LL P: 80 mΩ, -2.0 A, LL	
		BSL316C N: 160 mΩ, 1.4 A, LL P: 150 mΩ, -1.5 A, LL	

www.infineon.com/smallsignal

All products are qualified to Automotive AEC Q101 (except the parts marked with*)
1) $R_{DS(on)}$ 4.5 V rated

For more details on the product, click on the part number.

Nomenclature

OptiMOS™

Package type
BSB = DirectFET™ (M Can)
BSC = SuperSO8
BSF = DirectFET™ (S Can)
BSK = PQFN 2 x 2
BSO = SO-8
BSZ = PQFN 3.3 x 3.3
IPA = FullPAK
SPB/IPB = D^2PAK
IPC = Chip product
SPD/IPD = DPAK
IPI = I^2PAK
SPP/IPP = TO-220
IPS = IPAK Short Leads
IPT = TO-Leadless

$R_{DS(on)}$ [mΩ]
Divide by 10 to get $R_{DS(on)}$ value e.g. 014 = 1.4 mΩ

However, if the sixth character is a C, the fourth and the fifth character indicate the $R_{DS(on)}$
e.g. 12C = 12 mΩ
For chip products chip area in mm^2 multiplied by 10

N = N-channel
P = P-channel
C = Complementary

Breakdown voltage [V]
Multiply by 10 to get voltage class e.g. 03 = 30 V
E = Extended, +5 V, e.g. E2 = 25 V

RoHS compliant

Features
F = Fast switching
R = Integrated gate resistor
E = ESD protection
A = Qualified according to AEC Q101

3 = Technology generation
I = Monolithically integrated Schottky-like diode
FD = Fast diode
LF = Linear mode capability

Package options
SO-8/SuperSO8/PQFN 3.3 x 3.3/PQFN 2 x 2
S = Single chip
D = Dual chip

DirectFET™
X = MX footprint
N = MN footprint
Z = MZ footprint
Q = SQ footprint
T = ST footprint
H = SH footprint
J = SJ footprint

Level

		to be used from V_{GS}
N = Normal level	(NL)	10.0
M = Logic level 5 V opt.	(LL)	4.5
L = Logic level	(ELL)	4.5
K = Super logic level	(SLL)	2.5
J = Ultra logic level	(ULL)	1.8

OptiMOS™ 30 V

Package type

Consecutive number
without any correlation to product specification

Channels
N = N-channel
P = P-channel

I = Monolithically integrated Schottky-like diode

D = Dual
E = ESD
S = Single

For more details on the product, click on the part number.

Small signal

"X" indicates the package
D = SOT-363
P = SOT-223
R = SC59
S = SOT-89, SOT-23, SOT-323
L = TSOP-6

3 digits product identifier
meaning dependent on
product generation

Only present in following case
S = Single (only for packages which
are also used for multichip products)

Additional features
E = ESD protected MOSFET

Only present in following case
W= to distinguish SOT-323 from SOT-23

Polarity
N = N-channel
P = P-channel
C = Complementary
(N-ch + P-ch)

StrongIRFET™ (from May 2015 to 2019)

3 sequential digits
3 digits issued sequentially

Drive voltage
F = 4.5 V_{GS} capable for BV ≤ 30 V
L = 2.5 V_{GS} capable for BV ≤ 30 V, 4.5 V_{GS} capable for BV ≥ 40 V

2 to 3 digit voltage
For example:
25 = 25 V
135 = 135 V

Package
1 or 2 letters
B = TO-220
BA = Super220
C = Bare die or wafer
DL = DirectFET™ 1.5 Large Can
DM = DirectFET™ 1.5 Medium Can
Can DS = DirectFET™ 1.5 Small Can
Can FF = TO-220 FullPAK
H = PQFN 5 x 6
HB = Power Block 5 x 6
HM = PQFN 3.0 x 3.0 or 3.3 x 3.3
HS = PQFN 2 x 2
I = TO-220 FullPAK
K = SO-8
L = SOT-223
ML = SOT-23
P = TO-247
PS = Super247
R = DPAK
S = D^2PAK
SL = TO-262
SA = D2 7-pin with pin 2 void
SN = D2 7-pin with pins void
SC = D2 7-pin with pin 4 void
T = TollFET
TS = TSOP-6
U = IPAK

For more details on the product, click on the part number.

New nomenclature for OptiMOS™ and StrongIRFET™ MOSFETs (2019 onward)

Infineon

Package type
SC = SuperSO8
SD = SOT-363
SL = TSOP-6
SK = PQFN 2x2
SO = SO-8
SP = SOT-223
SQ = CE2
SR = SC59
SS = SOT-89, SOT-23, SOT-323
ST = sTOLL
SZ = PQFN 3.3 x 3.3
PA = TO-220 FullPAK
PB = D²PAK
PC = Chip Product
PD = DPAK
PF = D²PAK-7Pin
PI = I²PAK
PP = TO-220
PS = IPAK Short Leads
PT = TO-Leadless
PW = TO-247
QA = PQFN 4.5x4
QB = PQFN 3x2
QC = PQFN 3x5
QD = PQFN 5x6 Source-Down
QE = PQFN 3.3 x 3.3 Source-Down
WS = DirectFET™ (S)
WM = DirectFET™ (M)
WL = DirectFET™ (L)

$R_{DS(on)}$ [mΩ]
Divide by 10 to get $R_{DS(on)}$ value
e.g. 012 = 1.2 mΩ

However, if the sixth character is D or E the fourth and the fifth characters indicate the $R_{DS(on)}$ e.g.
12D = 120 mΩ
12E = 1200 mΩ
For chip products chip area in mm² multiplied by 10

Version
N = N-channel
P = P-channel
C = Complementary
G = GaN

Features
D = Dual
H = Halfbridge

M|F… Product brand – family
(M.. OptiMOS™, F…StrongIRFET™)
3 = Marketing generation with branding strategy
CG = Center gate
E = ESD protection
F = Fast switchingFD = Fast diode
SC = Super Cool
I = Monolithically integrated Schottky like diode
LF = Linear mode
R = Integrated gate resistor

Last letter: requirement category:
A = Qualified according to AECQ 101
S = Standard
None = Industrial

Level To be used for V_{GS}

N = Normal level	(NL)	10.0 V
L = Logic level	(LL)	4.5 V
M = Logic level 5 V opt.	(ELL)	4.5 V
K = Super logic level	(SLL)	2.5 V
J = Ultra logic level	(ULL)	1.8 V

Breakdown voltage [V]
Divide by 10
e.g. E2 = 25 V
10 = 100 V
25 = 250 V

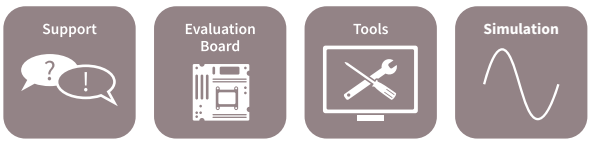
For more details on the product, click on the part number.

Infineon support for low voltage MOSFETs

Useful links and helpful information

Further information, data sheets and documents
www.infineon.com/powermosfet-12V-300V
www.infineon.com/smallsignal
www.infineon.com/pchannel
www.infineon.com/depletion
www.infineon.com/complementary

Evaluation boards and simulation models
www.infineon.com/to-leadless-evaluationboard
www.infineon.com/powermosfet-simulationmodels



Infineon powerful support

Useful links and helpful information

General support
www.infineon.com/support
www.infineon.com/wheretobuy
www.infineon.com/quality
www.infineon.com/packages
www.infineon.com/green
www.infineon.com/opn

Tools, desks and more
www.infineon.com/solutionfinder
www.infineon.com/lightdesk
www.infineon.com/evaluationboards
www.infineon.com/webinars

Request reliability (FIT) data
http://infineon-community.com/FIT_1

Register for the Newsletter4Engineers
http://infineon-community.com/Newsletter4Engineers

A world leader in semiconductor solutions

Our vision

We are the link between the real and the digital world.

Our values

We commit
We partner
We innovate
We perform

Our mission

We make life easier, safer and greener.

Part of your life. Part of tomorrow.

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Infineon distribution partners and sales offices:
www.infineon.com/wheretobuy

Service hotline

Infineon offers its toll-free 0800/4001 service hotline as one central number, available 24/7 in English, Mandarin and German.

- Germany ..... 0800 951 951 951 (German/English)
- China, mainland ..... 4001 200 951 (Mandarin/English)
- India ..... 000 800 4402 951 (English)
- USA ..... 1-866 951 9519 (English/German)
- Other countries ..... 00* 800 951 951 951 (English/German)
- Direct access ..... +49 89 234-0 (interconnection fee, German/English)

* Please note: Some countries may require you to dial a code other than "00" to access this international number.
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