



OptiMOS™ and StrongIRFET™ MOSFETS

Selection guide 2020

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





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OptiMOS™ and StrongIRFET™

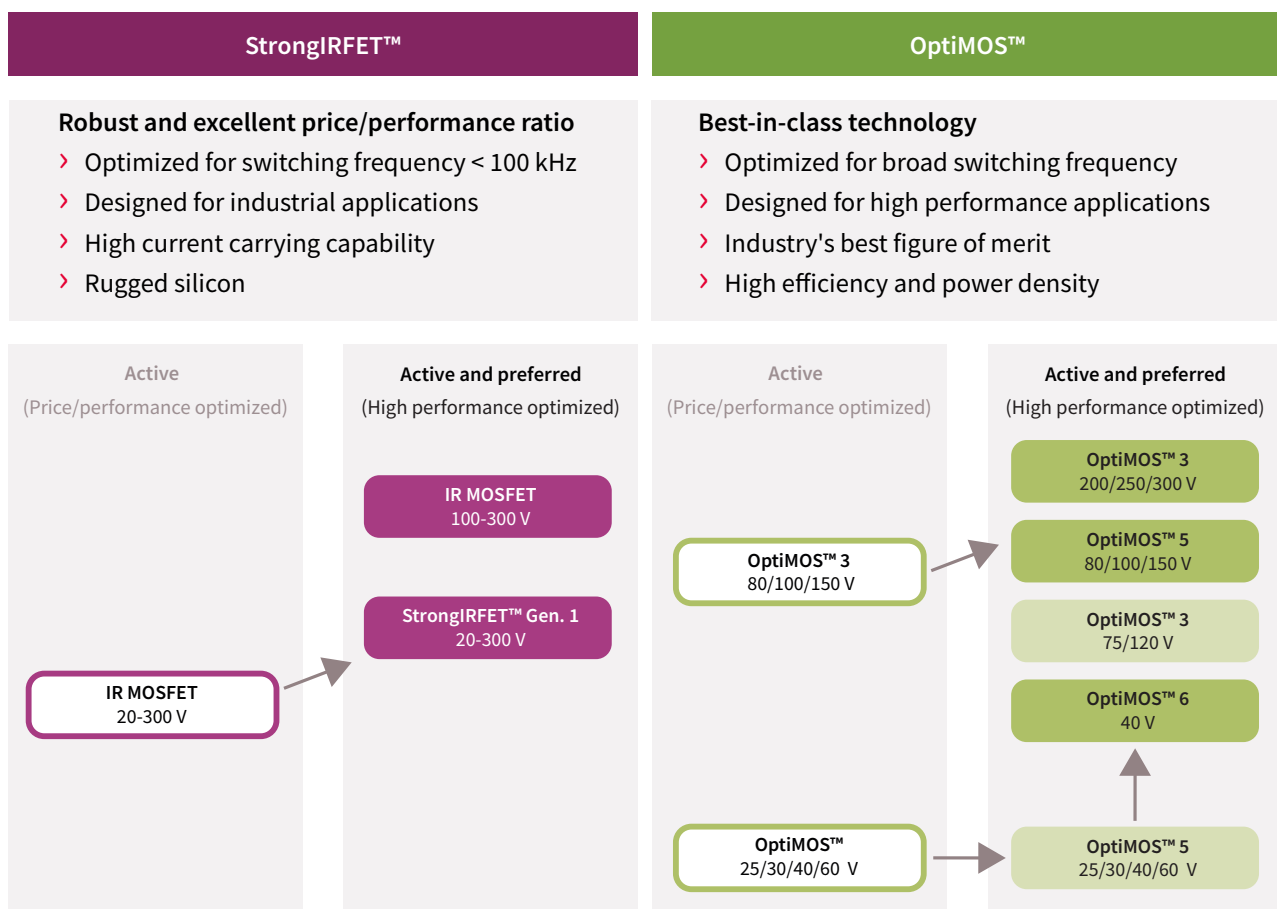
20-300 V N-channel power MOSFETs

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





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.

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, Multi-copter, 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™	✓	✓	✓	✓	✓				

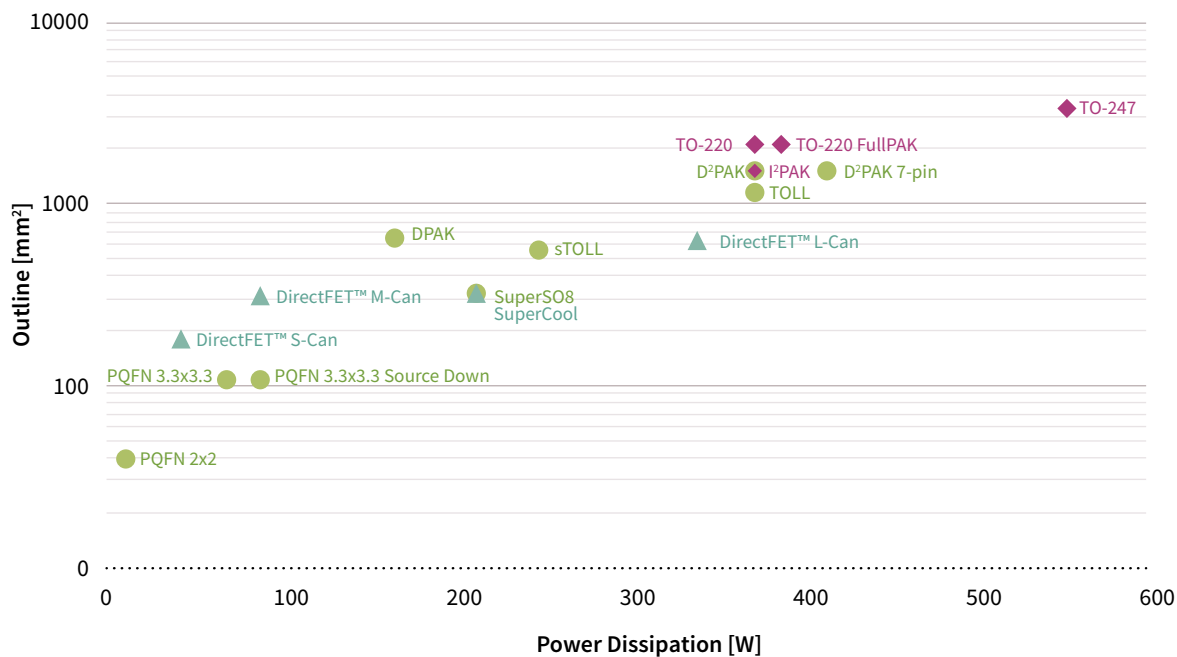
Space-saving and high performance packages

	TO-247	TO-220	TO-220 FullPAK	D ² PAK	D ² PAK 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

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 mount 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.



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:

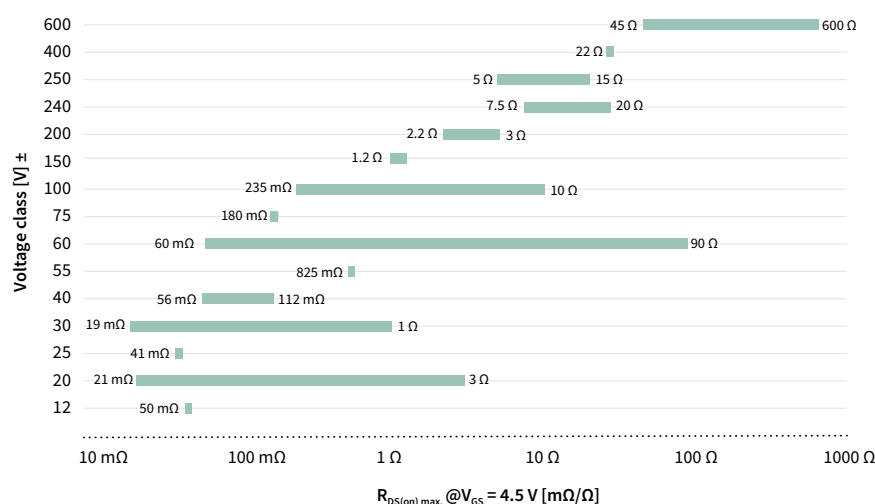
SOT-223, SOT-23, SOT-323, SOT-363, SOT-89, TSOP-6 and SC59

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
Most products qualified to AEC Q101
Four $V_{GS(th)}$ classes available for 1.8 V, 2.5 V, 4.5 V, and 10 V gate drives
ESD protected p-channel parts
V_{DS} range from -250 V to 600 V
RoHS compliant and halogen free

Key benefits
Suitable for automotive and high quality demanding applications
Easy interface to MCU
Reduction of design complexity
Wide selection of products available Industry standard small outline packages
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.

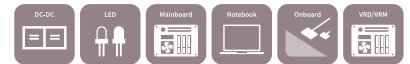
	SOT-363	SOT-323	SOT-23	TSOP-6	SC59	SOT-89	SOT-223
Package outline [mm ²]	4.2	4.2	6.96	7.25	8.4	18	45.5

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



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



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

OptiMOS™ and StrongIRFET™ 25 V logic level



$R_{DS(on)}$ max @ $V_{GS}=10\text{ V}$ [mΩ]	DirectFET™	PQFN 2 x 2	PQFN 3.3 x 3.3	SuperSO8	SO-8
< 1	IRF6718L2TRPBF $R_{DS(on)}=0.7\text{ mΩ}$ BSB008NE2LX $R_{DS(on)}=0.8\text{ mΩ}$		IQE006NE2LM5 3) $R_{DS(on)}=0.6\text{ mΩ}$ IQE006NE2LM5CG 3) $R_{DS(on)}=0.6\text{ mΩ}$ BSZ009NE2LS5 $R_{DS(on)}=0.9\text{ mΩ}$	BSC004NE2LS5 2) $R_{DS(on)}=0.9\text{ mΩ}$ BSC009NE2LS5 $R_{DS(on)}=0.9\text{ mΩ}$ BSC009NE2LS51** $R_{DS(on)}=0.95\text{ mΩ}$	
1-2	IRF6898MTRPBF** $R_{DS(on)}=1.1\text{ mΩ}$ BSB012NE2LXI** $R_{DS(on)}=1.2\text{ mΩ}$ IRF6717MTRPBF $R_{DS(on)}=1.25\text{ mΩ}$ IRF6894MTRPBF** $R_{DS(on)}=1.3\text{ mΩ}$ BSB013NE2LXI** $R_{DS(on)}=1.3\text{ mΩ}$ IRF6797MTRPBF** $R_{DS(on)}=1.4\text{ mΩ}$ IRF6716M $R_{DS(on)}=1.6\text{ mΩ}$ IRF6715MTRPBF $R_{DS(on)}=1.6\text{ mΩ}$ IRF6893MTRPBF** $R_{DS(on)}=1.6\text{ mΩ}$ IRF6892STRPBF** $R_{DS(on)}=1.7\text{ mΩ}$ IRF6795MTRPBF** $R_{DS(on)}=1.8\text{ mΩ}$		BSZ010NE2LS5 $R_{DS(on)}=1.0\text{ mΩ}$ BSZ011NE2LS5I $R_{DS(on)}=1.1\text{ mΩ}$ BSZ011NE2LS5I $R_{DS(on)}=1.1\text{ mΩ}$ BSZ013NE2LS51** $R_{DS(on)}=1.3\text{ mΩ}$ BSZ014NE2LS51F*** $R_{DS(on)}=1.45\text{ mΩ}$ BSZ017NE2LS51** $R_{DS(on)}=1.7\text{ mΩ}$ BSZ018NE2LS $R_{DS(on)}=1.8\text{ mΩ}$ BSZ018NE2LSI** $R_{DS(on)}=1.8\text{ mΩ}$	BSC010NE2LS $R_{DS(on)}=1.0\text{ mΩ}$ BSC010NE2LS1** $R_{DS(on)}=1.05\text{ mΩ}$ BSC014NE2LS1** $R_{DS(on)}=1.4\text{ mΩ}$ IRFH5250D $R_{DS(on)}=1.4\text{ mΩ}$ BSC015NE2LS51** $R_{DS(on)}=1.5\text{ mΩ}$ BSC018NE2LS $R_{DS(on)}=1.8\text{ mΩ}$ BSC018NE2LS1** $R_{DS(on)}=1.8\text{ mΩ}$	
2-4	IRF6714MTRPBF $R_{DS(on)}=2.1\text{ mΩ}$ BSF030NE2LQ $R_{DS(on)}=3.0\text{ mΩ}$ BSF035NE2LQ $R_{DS(on)}=3.5\text{ mΩ}$ IRF6811STRPBF** $R_{DS(on)}=3.7\text{ mΩ}$	ISK024NE2LM5**** $R_{DS(on)}=2.4\text{ mΩ}$	BSZ031NE2LS5 $R_{DS(on)}=3.1\text{ mΩ}$ BSZ033NE2LS5 $R_{DS(on)}=3.3\text{ mΩ}$ BSZ036NE2LS $R_{DS(on)}=3.6\text{ mΩ}$ BSZ037NE2LS5**** $R_{DS(on)}=3.7\text{ mΩ}$ BSZ039NE2LS5**** $R_{DS(on)}=3.9\text{ mΩ}$	BSC024NE2LS $R_{DS(on)}=2.4\text{ mΩ}$ BSC026NE2LS5 $R_{DS(on)}=2.6\text{ mΩ}$ BSC032NE2LS $R_{DS(on)}=3.2\text{ mΩ}$	IRF8252 $R_{DS(on)}=2.7\text{ mΩ}$
4-10	IRF6802SD $R_{DS(on)}=4.2\text{ mΩ}$ IRF6710S2TRPBF $R_{DS(on)}=4.5\text{ mΩ}$ IRF6712STRPBF $R_{DS(on)}=4.9\text{ mΩ}$ IRF6810STRPBF** $R_{DS(on)}=5.2\text{ mΩ}$		IRFHM8228TRPBF $R_{DS(on)}=5.2\text{ mΩ}$ BSZ060NE2LS $R_{DS(on)}=6.0\text{ mΩ}$ IRFHM8235TRPBF $R_{DS(on)}=7.7\text{ mΩ}$	BSC050NE2LS $R_{DS(on)}=5.0\text{ mΩ}$	
> 10		IRFHS8242 $R_{DS(on)}=13\text{ mΩ}$			

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* Optimized for resonant applications (e.g. LLC converter)

** Monolithically integrated Schottky-like diode

*** $R_{DS(on)}$ max @ $V_{GS}=4.5\text{ V}$

**** 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

OptiMOS™ and StrongIRFET™ 30 V logic level



$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-263 (D ² PAK 7-pin)	TO-220
<1			IPB009N03L G $R_{DS(on)}=0.95\text{ mΩ}$	
1-2		IRLS3813TRL PBF $R_{DS(on)}=1.95\text{ mΩ}$		IRLB3813PBF $R_{DS(on)}=1.95\text{ mΩ}$
2-4	IRLR8743TRPBF $R_{DS(on)}=3.1\text{ mΩ}$ IPD031N03L G $R_{DS(on)}=3.1\text{ mΩ}$	IRFR8314TRPBF $R_{DS(on)}=2.2\text{ mΩ}$		IRLB8314PBF $R_{DS(on)}=2.4\text{ mΩ}$ IRL3713PBF $R_{DS(on)}=3.0\text{ mΩ}$
		IPB034N03L G $R_{DS(on)}=3.4\text{ mΩ}$		IRLB8743PBF $R_{DS(on)}=3.2\text{ mΩ}$ IPP034N03L G $R_{DS(on)}=3.4\text{ mΩ}$
4-10	IPD040N03L G $R_{DS(on)}=4.0\text{ mΩ}$ IPD050N03L G $R_{DS(on)}=5.0\text{ mΩ}$	IPB042N03L G $R_{DS(on)}=4.2\text{ mΩ}$ IPB055N03L G $R_{DS(on)}=5.5\text{ mΩ}$		IPP042N03L G $R_{DS(on)}=4.2\text{ mΩ}$ IRLB8748PBF $R_{DS(on)}=4.8\text{ mΩ}$
	IRLR8726TRPBF $R_{DS(on)}=5.8\text{ mΩ}$ IPD060N03L G $R_{DS(on)}=6.0\text{ mΩ}$	IPB065N03L G $R_{DS(on)}=6.5\text{ mΩ}$		IPP055N03L G $R_{DS(on)}=5.5\text{ mΩ}$
	IPD075N03L G $R_{DS(on)}=7.5\text{ mΩ}$	IPB080N03L G $R_{DS(on)}=8.0\text{ mΩ}$		IRL8113PBF $R_{DS(on)}=6.0\text{ mΩ}$
	IRLR8729TRPBF $R_{DS(on)}=8.9\text{ mΩ}$			IRLB8721PBF $R_{DS(on)}=8.7\text{ mΩ}$
	IPD090N03L G $R_{DS(on)}=9.0\text{ mΩ}$			
	IPD135N03L G $R_{DS(on)}=13.5\text{ mΩ}$ IRLR3103 $R_{DS(on)}=19.0\text{ mΩ}$			

OptiMOS™ and StrongIRFET™ 30 V logic level



$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless	
<1			BSC005N03LS5* $R_{DS(on)}=0.5\text{ m}\Omega$	IPT004N03L $R_{DS(on)}=0.4\text{ m}\Omega$	
			BSC005N03LS5I* $R_{DS(on)}=0.5\text{ m}\Omega$		
1-2			ISC011N03LS5 $R_{DS(on)}=1.1\text{ m}\Omega$		
			IRFH8303TRPBF $R_{DS(on)}=1.1\text{ m}\Omega$		
			BSC011N03LS $R_{DS(on)}=1.1\text{ m}\Omega$		
			BSC011N03LSI** $R_{DS(on)}=1.1\text{ m}\Omega$		
			BSC011N03LST*** $R_{DS(on)}=1.1\text{ m}\Omega$		
			IRFH8307TRPBF $R_{DS(on)}=1.3\text{ m}\Omega$		
	IRF8301MTRPBF $R_{DS(on)}=1.5\text{ m}\Omega$		BSC0500NSI** $R_{DS(on)}=1.3\text{ m}\Omega$		
	IRF6726MTRPBF $R_{DS(on)}=1.7\text{ m}\Omega$	BSZ0500NSI** $R_{DS(on)}=1.5\text{ m}\Omega$			
	IRF6727MTRPBF $R_{DS(on)}=1.7\text{ m}\Omega$	BSZ019N03LS $R_{DS(on)}=1.9\text{ m}\Omega$	BSC014N03LS G $R_{DS(on)}=1.4\text{ m}\Omega$		
	IRF8302MTRPBF** $R_{DS(on)}=1.8\text{ m}\Omega$	ISZ019N03LS5 $R_{DS(on)}=1.9\text{ m}\Omega$	IRFH5301TRPBF $R_{DS(on)}=1.85\text{ m}\Omega$		
		BSZ0901NS $R_{DS(on)}=2.0\text{ m}\Omega$	ISC019N03LS5 $R_{DS(on)}=1.9\text{ m}\Omega$		
		BSZ0501NSI** $R_{DS(on)}=2.0\text{ m}\Omega$	BSC0901NS $R_{DS(on)}=1.9\text{ m}\Omega$		
			BSC0501NSI** $R_{DS(on)}=1.9\text{ m}\Omega$		
			BSC0901NSI** $R_{DS(on)}=2.0\text{ m}\Omega$		
	2-4			ISC026N03LS5 $R_{DS(on)}=2.6\text{ m}\Omega$	
				ISC037N03LSIS $R_{DS(on)}=3.7\text{ m}\Omega$	
		ISZ040N03LSIS $R_{DS(on)}=4.0\text{ m}\Omega$	ISC045N03LS5 $R_{DS(on)}=4.5\text{ m}\Omega$		
		ISZ065N03LS5 $R_{DS(on)}=6.5\text{ m}\Omega$			

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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



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

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** Monolithically integrated Schottky-like diode

*** $R_{DS(on)}$ max @ $V_{GS}=4.5\text{ V}$

**** 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.

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



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

OptiMOST™ and StrongIRFET™ 40 V normal level



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



OptiMOS™ and StrongIRFET™ 40 V logic level

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-263 (D ² PAK 7-pin)	TO-220	TO-247	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
<1			IRL40SC228 $R_{DS(on)}=0.65\text{ mΩ}$			IRL7472L1TRPBF $R_{DS(on)}=0.45\text{ mΩ}$		BSC007N04LS6 $R_{DS(on)}=0.7\text{ mΩ}$	IRL40T209 $R_{DS(on)}=0.8\text{ mΩ}$
			IRL40SC209 $R_{DS(on)}=0.8\text{ mΩ}$						
1-2		IPB015N04L G $R_{DS(on)}=1.5\text{ mΩ}$	IPB011N04L G $R_{DS(on)}=1.1\text{ mΩ}$	IRL40B209 $R_{DS(on)}=1.25\text{ mΩ}$	IRLP3034PBF $R_{DS(on)}=1.7\text{ mΩ}$	BSB014N04LX3 G $R_{DS(on)}=1.4\text{ mΩ}$		BSC010N04LS $R_{DS(on)}=1.0\text{ mΩ}$	
		IRLS3034TRL PBF $R_{DS(on)}=1.7\text{ mΩ}$	IRLS3034TRL7P $R_{DS(on)}=1.4\text{ mΩ}$	IRLB3034PBF $R_{DS(on)}=1.7\text{ mΩ}$		IRL7486MTRPBF $R_{DS(on)}=1.4\text{ mΩ}$		BSC010N04LS6 $R_{DS(on)}=1.0\text{ mΩ}$	
		IRL40S212 $R_{DS(on)}=1.9\text{ mΩ}$		IRL40B212 $R_{DS(on)}=1.9\text{ mΩ}$				BSC010N04LST $R_{DS(on)}=1.0\text{ mΩ}$	
								BSC010N04LSI $R_{DS(on)}=1.05\text{ mΩ}$	
								BSC010N04LSC* $R_{DS(on)}=1.05\text{ mΩ}$	
								BSC014N04LST $R_{DS(on)}=1.4\text{ mΩ}$	
								BSC014N04LS $R_{DS(on)}=1.4\text{ mΩ}$	
								BSC014N04LSI $R_{DS(on)}=1.45\text{ mΩ}$	
								ISC015N04NM5 $R_{DS(on)}=1.5\text{ mΩ}$	
								BSC016N04LS G $R_{DS(on)}=1.6\text{ mΩ}$	
								ISC017N04NM5 $R_{DS(on)}=1.7\text{ mΩ}$	
								BSC018N04LS G $R_{DS(on)}=1.8\text{ mΩ}$	
							BSZ018N04LS6 $R_{DS(on)}=1.8\text{ mΩ}$	ISC019N04NM5 $R_{DS(on)}=1.9\text{ mΩ}$	
								BSC019N04LS $R_{DS(on)}=1.9\text{ mΩ}$	
								BSC019N04LST $R_{DS(on)}=1.9\text{ mΩ}$	
2-4				IRL40B215 $R_{DS(on)}=2.7\text{ mΩ}$		IRF6613TRPBF $R_{DS(on)}=3.4\text{ mΩ}$	BSZ021N04LS6 $R_{DS(on)}=2.1\text{ mΩ}$	BSC022N04LS $R_{DS(on)}=2.2\text{ mΩ}$	
							BSZ024N04LS6 $R_{DS(on)}=2.4\text{ mΩ}$	BSC022N04LS6 $R_{DS(on)}=2.2\text{ mΩ}$	
								IRLH5034TRPBF $R_{DS(on)}=2.4\text{ mΩ}$	
				IPP039N04L G $R_{DS(on)}=3.9\text{ mΩ}$			BSZ025N04LS $R_{DS(on)}=2.5\text{ mΩ}$	BSC026N04LS $R_{DS(on)}=2.6\text{ mΩ}$	
							BSZ028N04LS $R_{DS(on)}=2.8\text{ mΩ}$	BSC027N04LS G $R_{DS(on)}=2.7\text{ mΩ}$	
								ISC028N04NM5 $R_{DS(on)}=2.8\text{ mΩ}$	
								BSC032N04LS $R_{DS(on)}=3.2\text{ mΩ}$	
	IPD036N04L G $R_{DS(on)}=3.6\text{ mΩ}$	IRL1404S $R_{DS(on)}=4.0\text{ mΩ}$					BSZ034N04LS $R_{DS(on)}=3.4\text{ mΩ}$	BSC035N04LS G $R_{DS(on)}=3.5\text{ mΩ}$	
								ISC036N04NM5 $R_{DS(on)}=3.6\text{ mΩ}$	
								ISC046N04NM5 $R_{DS(on)}=4.6\text{ mΩ}$	
4-10	IRLR3114ZTRPBF $R_{DS(on)}=4.5\text{ mΩ}$					IRF6616TRPBF $R_{DS(on)}=5.0\text{ mΩ}$	BSZ040N04LS G $R_{DS(on)}=4.0\text{ mΩ}$	BSC050N04LS G $R_{DS(on)}=5.0\text{ mΩ}$	
								ISC058N04NM5 $R_{DS(on)}=5.8\text{ mΩ}$	
						IRF6614TRPBF $R_{DS(on)}=8.3\text{ mΩ}$	BSZ063N04LS6 $R_{DS(on)}=6.3\text{ mΩ}$	BSC059N04LS G $R_{DS(on)}=5.9\text{ mΩ}$	
								BSC059N04LS6 $R_{DS(on)}=5.9\text{ mΩ}$	
								BSC072N04LD $R_{DS(on)}=7.2\text{ mΩ}$, dual	
							BSZ097N04LS G $R_{DS(on)}=9.7\text{ mΩ}$	BSC093N04LS G $R_{DS(on)}=9.3\text{ mΩ}$	



OptiMOS™ and StrongIRFET™ 60 V normal level

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ⁺ PAK)	TO-263 (D ⁺ PAK 7-pin)	TO-262 (I ⁺ PAK)	TO-220	TO-220 FullPAK	TO-247
1-2			IPB010N06N ²⁾ $R_{DS(on)}=1.0\text{ mΩ}$				
			IRF60C241 $R_{DS(on)}=1.3\text{ mΩ}$				
			IRFS7530TRL7PP $R_{DS(on)}=1.4\text{ mΩ}$				
			IPB014N06N ²⁾ $R_{DS(on)}=1.4\text{ mΩ}$				
			IPB017N06N3 G $R_{DS(on)}=1.7\text{ mΩ}$				
		IRFS7530TRLPBF $R_{DS(on)}=2.0\text{ mΩ}$	IRFS7534TRL7PP ²⁾ $R_{DS(on)}=1.95\text{ mΩ}$	IPI020N06N ²⁾ $R_{DS(on)}=2.0\text{ mΩ}$	IRFB7530PBF $R_{DS(on)}=2.0\text{ mΩ}$		IRFP7530PBF $R_{DS(on)}=2.0\text{ mΩ}$
2-4	IPD025N06N ²⁾ $R_{DS(on)}=2.5\text{ mΩ}$	IRFS7534TRLPBF $R_{DS(on)}=2.4\text{ mΩ}$	IRFS3006TRL7PP $R_{DS(on)}=2.1\text{ mΩ}$		IPP020N06N ²⁾ $R_{DS(on)}=2.0\text{ mΩ}$		
		IRFS3006 $R_{DS(on)}=2.5\text{ mΩ}$		IPI024N06N3 G $R_{DS(on)}=2.4\text{ mΩ}$	IRFB7534PBF $R_{DS(on)}=2.4\text{ mΩ}$		
					IPP024N06N3 G ²⁾ $R_{DS(on)}=2.4\text{ mΩ}$		
		IPB026N06N ²⁾ $R_{DS(on)}=2.6\text{ mΩ}$			IRFB3006PBF $R_{DS(on)}=2.5\text{ mΩ}$		IRFP3006PBF $R_{DS(on)}=2.5\text{ mΩ}$
		IPB029N06N3 G $R_{DS(on)}=2.9\text{ mΩ}$		IPI029N06N ²⁾ $R_{DS(on)}=2.9\text{ mΩ}$	IPP029N06N ²⁾ $R_{DS(on)}=2.9\text{ mΩ}$	IPA029N06N ²⁾ $R_{DS(on)}=2.9\text{ mΩ}$	IRFP3206PBF $R_{DS(on)}=3.0\text{ mΩ}$
					IRFB3206BPF $R_{DS(on)}=3.0\text{ mΩ}$	IPA029N06NM5S $R_{DS(on)}=2.9\text{ mΩ}$	
	IPD033N06N ²⁾ $R_{DS(on)}=3.3\text{ mΩ}$	IRFS3206 $R_{DS(on)}=3.0\text{ mΩ}$		IPI032N06N3 G $R_{DS(on)}=3.2\text{ mΩ}$	IPP032N06N3 G $R_{DS(on)}=3.2\text{ mΩ}$	IPA032N06N3 G $R_{DS(on)}=3.2\text{ mΩ}$	
	IPD034N06N3 G $R_{DS(on)}=3.4\text{ mΩ}$	IRFS7537TRLPBF $R_{DS(on)}=3.3\text{ mΩ}$			IRFB7537PBF $R_{DS(on)}=3.3\text{ mΩ}$		IRFP7537PBF $R_{DS(on)}=3.3\text{ mΩ}$
					IRFB3256PBF $R_{DS(on)}=3.4\text{ mΩ}$		
	IPD038N06N3 G $R_{DS(on)}=3.8\text{ mΩ}$	IPB037N06N3 G $R_{DS(on)}=3.7\text{ mΩ}$			IPP040N06N3 G $R_{DS(on)}=4.0\text{ mΩ}$	IPA040N06N ²⁾ $R_{DS(on)}=4.0\text{ mΩ}$	
		IRFS3306 $R_{DS(on)}=4.2\text{ mΩ}$		IPI040N06N3 G $R_{DS(on)}=4.0\text{ mΩ}$	IPP040N06N ²⁾ $R_{DS(on)}=4.0\text{ mΩ}$	IPA040N06N M5S $R_{DS(on)}=4.0\text{ mΩ}$	
					IRFB3306PBF $R_{DS(on)}=4.2\text{ mΩ}$		IRFP3306PBF $R_{DS(on)}=4.2\text{ mΩ}$
4-10	IRFR7540TRPBF $R_{DS(on)}=4.8\text{ mΩ}$	IRFS7540TRLPBF $R_{DS(on)}=5.1\text{ mΩ}$			IRFB7540PBF $R_{DS(on)}=5.1\text{ mΩ}$	IPA057N06N3 G $R_{DS(on)}=5.7\text{ mΩ}$	
	IPD053N06N ²⁾ $R_{DS(on)}=5.3\text{ mΩ}$	IPB054N06N3 G $R_{DS(on)}=5.4\text{ mΩ}$			IPP057N06N3 G ²⁾ $R_{DS(on)}=5.7\text{ mΩ}$		
		IPB057N06N ²⁾ $R_{DS(on)}=5.7\text{ mΩ}$			IRFB7545PBF $R_{DS(on)}=5.9\text{ mΩ}$		
	IRFR7546TRPBF $R_{DS(on)}=7.9\text{ mΩ}$	IRF1018ES $R_{DS(on)}=8.4\text{ mΩ}$			IPP060N06N ²⁾ $R_{DS(on)}=6.0\text{ mΩ}$	IPA060N06N ²⁾ $R_{DS(on)}=6.0\text{ mΩ}$	
	IRFR1018E $R_{DS(on)}=8.4\text{ mΩ}$				IRFB7546PBF $R_{DS(on)}=7.3\text{ mΩ}$		
					IRF1018EPBF $R_{DS(on)}=8.4\text{ mΩ}$	IPA060N06NM5S $R_{DS(on)}=6.0\text{ mΩ}$	
	IPD088N06N3 G $R_{DS(on)}=8.8\text{ mΩ}$				IRF60B217 $R_{DS(on)}=9.0\text{ mΩ}$	IPA093N06N3 G $R_{DS(on)}=9.3\text{ mΩ}$	
	IRF60R217 $R_{DS(on)}=9.9\text{ mΩ}$	IPB090N06N3 G $R_{DS(on)}=9.0\text{ mΩ}$			IPP093N06N3 G $R_{DS(on)}=9.3\text{ mΩ}$		
>10	IRFR3806 $R_{DS(on)}=15.8\text{ mΩ}$	IRFS3806 $R_{DS(on)}=15.8\text{ mΩ}$			IRFB3806PBF $R_{DS(on)}=15.8\text{ mΩ}$		



OptiMOS™ and StrongIRFET™ 60 V normal level

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



OptiMOS™ and StrongIRFET™ 60 V logic level

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

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

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



OptiMOS™ and StrongIRFET™ 75 V normal level

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-263 (D ² PAK 7-pin)	TO-220	TO-247	DirectFET™	SuperSO8
1-2		IPB020NE7N3 G $R_{DS(on)}=2.0\text{ mΩ}$	IRFS7730TRL7PP $R_{DS(on)}=2.0\text{ mΩ}$		IRFP7718PBF $R_{DS(on)}=1.8\text{ mΩ}$		
2-4		IRFS7730TRL7PP $R_{DS(on)}=2.6\text{ mΩ}$	IRFS3107TRL7PP $R_{DS(on)}=2.6\text{ mΩ}$	IPP023NE7N3 G $R_{DS(on)}=2.3\text{ mΩ}$	IRFP4368PBF $R_{DS(on)}=1.85\text{ mΩ}$	IRF7759L2TRPBF $R_{DS(on)}=2.3\text{ mΩ}$	
		IRFS3107TRL7PP $R_{DS(on)}=3.0\text{ mΩ}$		IRFB7730PBF $R_{DS(on)}=2.6\text{ mΩ}$			
		IPB031NE7N3 G $R_{DS(on)}=3.1\text{ mΩ}$	IRFS7734TRL7PP $R_{DS(on)}=3.05\text{ mΩ}$	IRFB3077PBF $R_{DS(on)}=3.3\text{ mΩ}$			BSC036NE7NS3 G $R_{DS(on)}=3.6\text{ mΩ}$
		IRFS7734TRL7PP $R_{DS(on)}=3.5\text{ mΩ}$		IPP034NE7N3 G $R_{DS(on)}=3.4\text{ mΩ}$			
				IRFB7734PBF $R_{DS(on)}=3.5\text{ mΩ}$			
4-10		IRFS3207ZTRL7PP $R_{DS(on)}=4.1\text{ mΩ}$		IRFB3207ZPBF $R_{DS(on)}=4.5\text{ mΩ}$			
		IPB049NE7N3 G $R_{DS(on)}=4.9\text{ mΩ}$		IPP052NE7N3 G $R_{DS(on)}=5.2\text{ mΩ}$			BSC042NE7NS3 G $R_{DS(on)}=4.2\text{ mΩ}$
		IRFS3307ZTRL7PP $R_{DS(on)}=5.8\text{ mΩ}$		IRFB3307ZPBF $R_{DS(on)}=5.8\text{ mΩ}$			
		IRFS7762TRL7PP $R_{DS(on)}=6.7\text{ mΩ}$		IPP062NE7N3 G $R_{DS(on)}=6.2\text{ mΩ}$		IRF7780MTRPBF $R_{DS(on)}=5.7\text{ mΩ}$	IRFH5007TRPBF $R_{DS(on)}=5.9\text{ mΩ}$
	IRFR7740TRPBF $R_{DS(on)}=7.2\text{ mΩ}$			IRFB7740PBF $R_{DS(on)}=7.3\text{ mΩ}$			
		IRFS7787TRL7PP $R_{DS(on)}=8.4\text{ mΩ}$		IRFB7787PBF $R_{DS(on)}=8.4\text{ mΩ}$			IRFH7787TRPBF $R_{DS(on)}=8.0\text{ mΩ}$
	IRFR3607PBF $R_{DS(on)}=9.0\text{ mΩ}$	IRFS3607TRL7PP $R_{DS(on)}=9.0\text{ mΩ}$		IRFB3607PBF $R_{DS(on)}=9.0\text{ mΩ}$			
>10	IRFR7746TRPBF $R_{DS(on)}=11.2\text{ mΩ}$			IRFB7746PBF $R_{DS(on)}=10.6\text{ mΩ}$		BSF450NE7NH3 ⁽¹⁾ $R_{DS(on)}=45.0\text{ mΩ}$	



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

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-263 (D ² PAK 7-pin)	TO-262 (I ² PAK)	TO-220	TO-220 FullPAK	DirectFET™	PQFN 2 x 2	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
1-2		IPB017N08N5 $R_{DS(on)}=1.7\text{ mΩ}$	IPB015N08N5 $R_{DS(on)}=1.5\text{ mΩ}$								IPT012N08N5 $R_{DS(on)}=1.2\text{ mΩ}$
		IPB020N08N5 $R_{DS(on)}=2.0\text{ mΩ}$	IPB019N08N3 G $R_{DS(on)}=1.9\text{ mΩ}$		IPP020N08N5 $R_{DS(on)}=2.0\text{ mΩ}$					BSC021N08NS5 $R_{DS(on)}=2.1\text{ mΩ}$	IPT019N08N5 $R_{DS(on)}=1.9\text{ mΩ}$
			IPB019N08N5 $R_{DS(on)}=1.95\text{ mΩ}$								
2-4		IPB024N08N5 $R_{DS(on)}=2.4\text{ mΩ}$			IPP023N08N5 $R_{DS(on)}=2.3\text{ mΩ}$					BSC025N08LS5 $R_{DS(on)}=2.5\text{ mΩ}$	
		IPB025N08N3 G $R_{DS(on)}=2.5\text{ mΩ}$	IPB030N08N3 G $R_{DS(on)}=3.0\text{ mΩ}$		IPP027N08N5 $R_{DS(on)}=2.7\text{ mΩ}$					BSC026N08NS5 $R_{DS(on)}=2.6\text{ mΩ}$	
					IPP028N08N3 G $R_{DS(on)}=2.8\text{ mΩ}$	IPA028N08N3 G $R_{DS(on)}=2.8\text{ mΩ}$				BSC030N08NS5 $R_{DS(on)}=3.0\text{ mΩ}$	IPT029N08N5 $R_{DS(on)}=2.9\text{ mΩ}$
		IPB031N08N5 $R_{DS(on)}=3.1\text{ mΩ}$			IPP034N08N5 $R_{DS(on)}=3.4\text{ mΩ}$					BSC037N08NS5 $R_{DS(on)}=3.7\text{ mΩ}$	
										BSC037N08NS5T $R_{DS(on)}=3.7\text{ mΩ}$	
		IPB035N08N3 G $R_{DS(on)}=3.5\text{ mΩ}$		IPB037N08N3 G $R_{DS(on)}=3.7\text{ mΩ}$	IPP037N08N3 G $R_{DS(on)}=3.7\text{ mΩ}$	IPA037N08N3 G $R_{DS(on)}=3.7\text{ mΩ}$				BSC040N08NS5 $R_{DS(on)}=4.0\text{ mΩ}$	
4-10	IPD046N08N5 $R_{DS(on)}=4.6\text{ mΩ}$	IPB049N08N5 $R_{DS(on)}=4.9\text{ mΩ}$			IPP052N08N5 $R_{DS(on)}=5.2\text{ mΩ}$	IPA040N08NM5S $R_{DS(on)}=4.0\text{ mΩ}$	BSB044N08NN3 G $R_{DS(on)}=4.4\text{ mΩ}$			BSC047N08NS3 G $R_{DS(on)}=4.7\text{ mΩ}$	
	IPD053N08N3 G $R_{DS(on)}=5.3\text{ mΩ}$	IPB054N08N3 G $R_{DS(on)}=5.4\text{ mΩ}$			IPP057N08N3 G $R_{DS(on)}=5.7\text{ mΩ}$	IPA052N08NM5S $R_{DS(on)}=5.2\text{ mΩ}$				BSC052N08NS5 $R_{DS(on)}=5.2\text{ mΩ}$	
		IPB067N08N3 G $R_{DS(on)}=6.7\text{ mΩ}$				IPA057N08N3 G $R_{DS(on)}=5.7\text{ mΩ}$				BSC057N08NS3 G $R_{DS(on)}=5.7\text{ mΩ}$	
							IRF6646TRPBF $R_{DS(on)}=9.5\text{ mΩ}$			BSC061N08NS5 $R_{DS(on)}=6.1\text{ mΩ}$	
	IPD096N08N3 G $R_{DS(on)}=9.6\text{ mΩ}$				IPP100N08N3 G $R_{DS(on)}=9.7\text{ mΩ}$		IRF7854TRPBF $R_{DS(on)}=9.5\text{ mΩ}$			BSC072N08NS5 $R_{DS(on)}=7.2\text{ mΩ}$	
>10							BSB104N08NP3 G $R_{DS(on)}=10.4\text{ mΩ}$	IRL80HS120 $R_{DS(on)}=32.0\text{ mΩ}$	BSZ110N08NS5 $R_{DS(on)}=11.0\text{ mΩ}$	BSC117N08NS5 $R_{DS(on)}=11.7\text{ mΩ}$	
	IPD135N08N3 G $R_{DS(on)}=13.5\text{ mΩ}$								BSZ123N08NS3 G $R_{DS(on)}=12.3\text{ mΩ}$	BSC123N08NS3 G $R_{DS(on)}=12.3\text{ mΩ}$	
									BSZ340N08NS3 G $R_{DS(on)}=34.0\text{ mΩ}$	BSC340N08NS3 G $R_{DS(on)}=34.0\text{ mΩ}$	

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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



$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-263 (D ² PAK 7-pin)	TO-262 (I ² PAK)	TO-220	TO-220 FullPAK	TO-247
1-2		IPB020N10N5 $R_{DS(on)}=2.0\text{ m}\Omega$	IPB017N10N5 $R_{DS(on)}=1.7\text{ m}\Omega$				IRF100P218 $R_{DS(on)}=1.1\text{ m}\Omega$
		IPB020N10N5LF $R_{DS(on)}=2.0\text{ m}\Omega$	IPB017N10N5LF $R_{DS(on)}=1.7\text{ m}\Omega$				IRF100P219 $R_{DS(on)}=2.1\text{ m}\Omega$
2-4		IPB027N10N3 G $R_{DS(on)}=2.7\text{ m}\Omega$	IPB024N10N5 $R_{DS(on)}=2.4\text{ m}\Omega$		IPP023N10N5 $R_{DS(on)}=2.3\text{ m}\Omega$		IRFP4468PBF $R_{DS(on)}=2.6\text{ m}\Omega$
		IPB027N10N5 $R_{DS(on)}=2.7\text{ m}\Omega$	IPB025N10N3 G $R_{DS(on)}=2.5\text{ m}\Omega$	IPI030N10N3 G $R_{DS(on)}=3.0\text{ m}\Omega$	IPP030N10N3 G $R_{DS(on)}=3.0\text{ m}\Omega$	IPA030N10N3 G $R_{DS(on)}=3.0\text{ m}\Omega$	
		IPB033N10N5LF $R_{DS(on)}=3.3\text{ m}\Omega$	IPB032N10N5 $R_{DS(on)}=3.2\text{ m}\Omega$		IPP030N10N5 $R_{DS(on)}=3.0\text{ m}\Omega$		
			IPB039N10N3 G $R_{DS(on)}=3.9\text{ m}\Omega$		IPP039N10N5 $R_{DS(on)}=3.9\text{ m}\Omega$		
4-10	IPD050N10N5 $R_{DS(on)}=5.0\text{ m}\Omega$	IPB042N10N3 G $R_{DS(on)}=4.2\text{ m}\Omega$	IRFS4010TRL7PP $R_{DS(on)}=4.0\text{ m}\Omega$	IPI045N10N3 G $R_{DS(on)}=4.5\text{ m}\Omega$	IRF100B201 $R_{DS(on)}=4.2\text{ m}\Omega$	IPA045N10N3 G $R_{DS(on)}=4.5\text{ m}\Omega$	IRFP4110PBF $R_{DS(on)}=4.5\text{ m}\Omega$
	IPD068N10N3 G $R_{DS(on)}=6.8\text{ m}\Omega$	IRF100S201 $R_{DS(on)}=4.2\text{ m}\Omega$			IRFB4110PBF $R_{DS(on)}=4.5\text{ m}\Omega$	IPA050N10NM5S $R_{DS(on)}=5.0\text{ m}\Omega$	IRFP4310ZPBF $R_{DS(on)}=6.0\text{ m}\Omega$
		IRFS4010TRL7PBF $R_{DS(on)}=4.7\text{ m}\Omega$			IPP045N10N3 G $R_{DS(on)}=4.5\text{ m}\Omega$		
		IPB065N10N3 G $R_{DS(on)}=6.5\text{ m}\Omega$			IRFB4310ZPBF $R_{DS(on)}=6.0\text{ m}\Omega$		
		IRFS4310ZTRL7PBF $R_{DS(on)}=7.0\text{ m}\Omega$		IPI072N10N3 G $R_{DS(on)}=7.2\text{ m}\Omega$	IPP072N10N3 G $R_{DS(on)}=7.2\text{ m}\Omega$	IPA083N10N5 $R_{DS(on)}=8.3\text{ m}\Omega$	
	IPD082N10N3 G $R_{DS(on)}=8.2\text{ m}\Omega$				IPP083N10N5 $R_{DS(on)}=8.3\text{ m}\Omega$	IPA083N10NM5S $R_{DS(on)}=8.3\text{ m}\Omega$	
		IPB083N10N3 G $R_{DS(on)}=8.3\text{ m}\Omega$		IPI086N10N3 G $R_{DS(on)}=8.6\text{ m}\Omega$	IPP086N10N3 G $R_{DS(on)}=8.6\text{ m}\Omega$	IPA086N10N3 G $R_{DS(on)}=8.6\text{ m}\Omega$	
					IRF100B202 $R_{DS(on)}=8.6\text{ m}\Omega$		
		IRFS4410ZTRL7PBF $R_{DS(on)}=9.0\text{ m}\Omega$			IRFS4410ZTRL7PBF $R_{DS(on)}=9.0\text{ m}\Omega$		
					IRFB4410ZPBF $R_{DS(on)}=9.0\text{ m}\Omega$		
10-25	IPD122N10N3 G $R_{DS(on)}=12.2\text{ m}\Omega$						
	IPD12CN10N G $R_{DS(on)}=12.4\text{ m}\Omega$	IPB123N10N3 G $R_{DS(on)}=12.3\text{ m}\Omega$					
	IRFR4510TRPBF $R_{DS(on)}=13.9\text{ m}\Omega$	IRFS4510TRL7PBF $R_{DS(on)}=13.9\text{ m}\Omega$			IRFB4510PBF $R_{DS(on)}=13.5\text{ m}\Omega$	IPA126N10NM3S $R_{DS(on)}=12.6\text{ m}\Omega$	
				IPI180N10N3 G $R_{DS(on)}=18.0\text{ m}\Omega$			
>25	IPD25CN10N G $R_{DS(on)}=25.0\text{ m}\Omega$						
	IPD33CN10N G $R_{DS(on)}=33.0\text{ m}\Omega$					IRFI4212H-117P $R_{DS(on)}=72.5\text{ m}\Omega$, HB ¹⁾	
	IPD78CN10N G $R_{DS(on)}=78.0\text{ m}\Omega$						



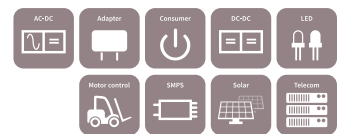
OptiMOS™ and StrongIRFET™ 100 V normal level

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	DirectFET™	PQFN 3.3 x 3.3	SuperSO8	SuperSO8 dual cool	SO-8	TO-Leadless
1-2						IPT015N10N5 $R_{DS(on)} = 1.5\text{ mΩ}$
			BSC027N10NS5 $R_{DS(on)} = 2.7\text{ mΩ}$			IPT020N10N3 $R_{DS(on)} = 2.0\text{ mΩ}$
						IPT020N10N5 $R_{DS(on)} = 2.0\text{ mΩ}$
2-4	IRF7769L1TRPBF $R_{DS(on)} = 3.5\text{ mΩ}$		BSC035N10NS5 $R_{DS(on)} = 3.5\text{ mΩ}$	BSC040N10NS5SC $R_{DS(on)} = 4.0\text{ mΩ}$		IPT026N10N5 $R_{DS(on)} = 2.6\text{ mΩ}$
			BSC040N10NS5 $R_{DS(on)} = 4.0\text{ mΩ}$			
4-10			BSC050N10NS5* $R_{DS(on)} = 5.0\text{ mΩ}$			
	BSB056N10NN3 G $R_{DS(on)} = 5.6\text{ mΩ}$		BSC060N10NS3 G $R_{DS(on)} = 6.0\text{ mΩ}$			
			BSC070N10NS3 G $R_{DS(on)} = 7.0\text{ mΩ}$	BSC070N10NS5SC $R_{DS(on)} = 7.0\text{ mΩ}$		
			BSC070N10NS5 $R_{DS(on)} = 7.0\text{ mΩ}$			
			IRFH5010TRPBF $R_{DS(on)} = 9.0\text{ mΩ}$			
		BSZ097N10NS5 $R_{DS(on)} = 9.7\text{ mΩ}$	BSC098N10NS5 $R_{DS(on)} = 9.8\text{ mΩ}$			
10-25			BSC100N10NSF G $R_{DS(on)} = 10.0\text{ mΩ}$			
	IRF6644TRPBF $R_{DS(on)} = 13.0\text{ mΩ}$		BSC109N10NS3 G $R_{DS(on)} = 10.9\text{ mΩ}$			
			BSC118N10NS G $R_{DS(on)} = 11.8\text{ mΩ}$			
			IRFH5110TRPBF $R_{DS(on)} = 12.4\text{ mΩ}$			
	BSF134N10NJ3 G ¹⁾ $R_{DS(on)} = 13.4\text{ mΩ}$		IRFH7110TRPBF $R_{DS(on)} = 13.5\text{ mΩ}$			
			IRFH5210TRPBF $R_{DS(on)} = 14.9\text{ mΩ}$			
		BSZ160N10NS3 G $R_{DS(on)} = 16.0\text{ mΩ}$	BSC160N10NS3 G $R_{DS(on)} = 16.0\text{ mΩ}$			
	IRF6662TRPBF $R_{DS(on)} = 22.0\text{ mΩ}$		BSC196N10NS G $R_{DS(on)} = 19.6\text{ mΩ}$		IRF7853TRPBF $R_{DS(on)} = 18.0\text{ mΩ}$	
>25	IRF6645TRPBF $R_{DS(on)} = 35.0\text{ mΩ}$	BSZ440N10NS3 G $R_{DS(on)} = 44.0\text{ mΩ}$	BSC252N10NSF G $R_{DS(on)} = 25.2\text{ mΩ}$			
	IRF7665S2TRPBF $R_{DS(on)} = 62.0\text{ mΩ}$		BSC440N10NS3 G $R_{DS(on)} = 44.0\text{ mΩ}$			
2 x 75	IRF6665TRPBF $R_{DS(on)} = 63.0\text{ mΩ}$		BSC750N10ND G $R_{DS(on)} = 75.0\text{ mΩ}; \text{dual}$			
2 x 195		IRFHM792TRPBF $R_{DS(on)} = 195.0\text{ mΩ}, \text{dual}$				

OptiMOS™ and StrongIRFET™ 100 V logic level



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



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

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

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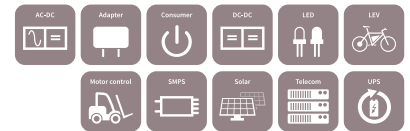
* logic level devices

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



OptiMOST™ and StrongIRFET™ 135-150 V normal level

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



OptiMOST™ and StrongIRFET™ 135-150 V normal level

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-263 (D ² PAK 7-pin)	SuperSO8	TO-251 (IPAK)	TO-262 (I ² PAK)	TO-220	TO-220 FullIPAK	TO-247
4-10		IPB048N15N5 $R_{DS(on)}=4.8\text{ mΩ}$	IPB044N15N5 $R_{DS(on)}=4.4\text{ mΩ}$			IPI051N15N5 $R_{DS(on)}=5.1\text{ mΩ}$	IPP051N15N5 ²⁾ $R_{DS(on)}=5.1\text{ mΩ}$		IRF150P220 $R_{DS(on)}=2.5\text{ mΩ}$
		IPB048N15N5LF $R_{DS(on)}=4.8\text{ mΩ}$	IRF135SA204 ⁵⁾ $R_{DS(on)}=5.9\text{ mΩ}$						IRF150P221 $R_{DS(on)}=4.8\text{ mΩ}$
		IPB072N15N3 G $R_{DS(on)}=7.2\text{ mΩ}$	IPB060N15N5 $R_{DS(on)}=6.0\text{ mΩ}$	BSC074N15NS5 $R_{DS(on)}=7.4\text{ mΩ}$		IPI075N15N3 G $R_{DS(on)}=7.5\text{ mΩ}$	IPP075N15N3 G $R_{DS(on)}=7.5\text{ mΩ}$		IRFP4568PBF $R_{DS(on)}=5.9\text{ mΩ}$
		IPB073N15N5 $R_{DS(on)}=7.3\text{ mΩ}$	IPB065N15N3 G $R_{DS(on)}=6.5\text{ mΩ}$			IPI076N15N5 $R_{DS(on)}=7.6\text{ mΩ}$	IPP076N15N5 $R_{DS(on)}=7.6\text{ mΩ}$	IPA075N15N3 G $R_{DS(on)}=7.5\text{ mΩ}$	
		IPB083N15N5LF $R_{DS(on)}=8.3\text{ mΩ}$							
		IRF135S203 ⁵⁾ $R_{DS(on)}=8.4\text{ mΩ}$					IRF135B203 ⁵⁾ $R_{DS(on)}=8.4\text{ mΩ}$		
							IRFB4115PBF $R_{DS(on)}=11.0\text{ mΩ}$		
10-25		IPB108N15N3 G $R_{DS(on)}=10.8\text{ mΩ}$	IRFS4115TRL7PP $R_{DS(on)}=11.8\text{ mΩ}$			IPI111N15N3 G $R_{DS(on)}=11.1\text{ mΩ}$	IPP111N15N3 G $R_{DS(on)}=11.1\text{ mΩ}$	IPA105N15N3 G $R_{DS(on)}=10.5\text{ mΩ}$	
		IRFS4321 $R_{DS(on)}=15.0\text{ mΩ}$	IRFS4321TRL7PP $R_{DS(on)}=14.7\text{ mΩ}$				IRFB4321PBF $R_{DS(on)}=15.0\text{ mΩ}$		IRFP4321PBF $R_{DS(on)}=15.5\text{ mΩ}$
		IRFS4115TRL7PBF $R_{DS(on)}=12.1\text{ mΩ}$					IRFB4228PBF $R_{DS(on)}=15.0\text{ mΩ}$		
	IPD200N15N3 G $R_{DS(on)}=20.0\text{ mΩ}$	IPB200N15N3 G $R_{DS(on)}=20.0\text{ mΩ}$					IPP200N15N3 G ²⁾ $R_{DS(on)}=20.0\text{ mΩ}$		
>25		IRFS4615PBF $R_{DS(on)}=42.0\text{ mΩ}$		IRFH5015TRPBF $R_{DS(on)}=31.0\text{ mΩ}$			IRFB4615PBF $R_{DS(on)}=39.0\text{ mΩ}$		
	IRFR4615 $R_{DS(on)}=42.0\text{ mΩ}$	IRFS5615PBF $R_{DS(on)}=42.0\text{ mΩ}$			IRFU4615PBF $R_{DS(on)}=42.0\text{ mΩ}$		IRFB5615PBF $R_{DS(on)}=39.0\text{ mΩ}$		
	IPD530N15N3 G $R_{DS(on)}=53.0\text{ mΩ}$	IPB530N15N3 G $R_{DS(on)}=53.0\text{ mΩ}$		IRFH5215TRPBF $R_{DS(on)}=58.0\text{ mΩ}$		IPI530N15N3 G ²⁾ $R_{DS(on)}=53.0\text{ mΩ}$	IPP530N15N3 G ²⁾ $R_{DS(on)}=53.0\text{ mΩ}$		
							IRFB4019PBF $R_{DS(on)}=95.0\text{ mΩ}$		

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2) 8 V rated ($R_{DS(on)}$ also specified @ $V_{GS} = 8\text{ V}$)

3) Coming soon

5) 135 V

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



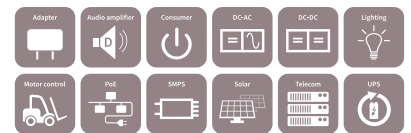
OptiMOS™ and StrongIRFET™ 200 V normal level

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-262 (I ² PAK)	TO-220	TO-220 FullPAK	TO-247
4-10						IRF200P222 $R_{DS(on)}=6.6\text{ mΩ}$ IRFP4668PBF $R_{DS(on)}=9.7\text{ mΩ}$
10-25		IPB107N20N3 G $R_{DS(on)}=10.7\text{ mΩ}$ IPB107N20NA ⁴⁾ $R_{DS(on)}=10.7\text{ mΩ}$ IPB110N20N3LF $R_{DS(on)}=11.0\text{ mΩ}$ IPB117N20NFD $R_{DS(on)}=11.7\text{ mΩ}$ IPB156N22NFD ²⁾ $R_{DS(on)}=15.6\text{ mΩ}$ IRFS4127TRL PBF $R_{DS(on)}=22.0\text{ mΩ}$	IPI110N20N3 G $R_{DS(on)}=11.0\text{ mΩ}$	IPP110N20N3 G $R_{DS(on)}=11.0\text{ mΩ}$ IPP110N20NA $R_{DS(on)}=11.0\text{ mΩ}$ IPP120N20NFD $R_{DS(on)}=12.0\text{ mΩ}$ IRFB4127PBF $R_{DS(on)}=20.0\text{ mΩ}$		IRF200P223 $R_{DS(on)}=11.5\text{ mΩ}$ IRFP4127PBF $R_{DS(on)}=21.0\text{ mΩ}$ IRFP4227PBF $R_{DS(on)}=25.0\text{ mΩ}$
>25		IRFS4227TRL PBF $R_{DS(on)}=26.0\text{ mΩ}$ IPD320N20N3 G $R_{DS(on)}=32.0\text{ mΩ}$ IRFR4620TRL PBF $R_{DS(on)}=78.0\text{ mΩ}$	IPB320N20N3 G $R_{DS(on)}=32.0\text{ mΩ}$ IRFS4620TRL PBF $R_{DS(on)}=78.0\text{ mΩ}$ IRFS4020TRL PBF $R_{DS(on)}=105.0\text{ mΩ}$	IPI320N20N3 G $R_{DS(on)}=32.0\text{ mΩ}$ IRFB4620PBF $R_{DS(on)}=72.5\text{ mΩ}$ IRFB5620PBF $R_{DS(on)}=72.5\text{ mΩ}$ IRFB4020PBF $R_{DS(on)}=100.0\text{ mΩ}$ IRF200B211 $R_{DS(on)}=170.0\text{ mΩ}$	IPA320N20NM3S $R_{DS(on)}=32.0\text{ mΩ}$ IRFI4020H-117P $R_{DS(on)}=100\text{ mΩ, HB}$	



OptiMOS™ and StrongIRFET™ 200 V normal level

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



OptiMOS™ and StrongIRFET™ 250 V normal level

$R_{DS(on), max.}$ @ $V_{GS}=10\text{ V}$ [mΩ]	TO-252 (DPAK)	TO-263 (D ² PAK)	TO-262 (I ² PAK)	TO-220	TO-220 FullPAK	TO-247	PQFN 3.3 x 3.3	SuperSO8	TO-Leadless
10-25		IPB200N25N3 G $R_{DS(on)}=20.0\text{ mΩ}$	IPI200N25N3 G $R_{DS(on)}=20.0\text{ mΩ}$	IPP200N25N3 G $R_{DS(on)}=20.0\text{ mΩ}$		IRF250P224 $R_{DS(on)}=12.0\text{ mΩ}$			
				IPP220N25NFD $R_{DS(on)}=22.0\text{ mΩ}$		IRFP4768PBF $R_{DS(on)}=17.5\text{ mΩ}$			IPT210N25NFD $R_{DS(on)}=21.0\text{ mΩ}$
						IRF250P225 $R_{DS(on)}=22.0\text{ mΩ}$			
>25								BSC430N25NSFD $R_{DS(on)}=43.0\text{ mΩ}$	
		IRFS4229TRL PBF $R_{DS(on)}=48.0\text{ mΩ}$		IRFB4332PBF $R_{DS(on)}=33.0\text{ mΩ}$		IRFP4332PBF $R_{DS(on)}=33.0\text{ mΩ}$		BSC600N25NS3 G $R_{DS(on)}=60.0\text{ mΩ}$	
	IPD600N25N3 G $R_{DS(on)}=60.0\text{ mΩ}$	IPB600N25N3 G $R_{DS(on)}=60.0\text{ mΩ}$	IPI600N25N3 G $R_{DS(on)}=60.0\text{ mΩ}$	IRFB4229PBF $R_{DS(on)}=46.0\text{ mΩ}$				BSC670N25NSFD $R_{DS(on)}=67.0\text{ mΩ}$	
				IPP600N25N3 G $R_{DS(on)}=60.0\text{ mΩ}$	IPA600N25NM3S $R_{DS(on)}=60.0\text{ mΩ}$	IRFP4229PBF $R_{DS(on)}=46.0\text{ mΩ}$	BSZ16DN25NS3 G $R_{DS(on)}=165.0\text{ mΩ}$	IRFH5025 $R_{DS(on)}=100.0\text{ mΩ}$	
							BSZ42DN25NS3 G $R_{DS(on)}=425.0\text{ mΩ}$	BSC16DN25NS3 G $R_{DS(on)}=165.0\text{ mΩ}$	

OptiMOS™ and StrongIRFET™ 300 V normal level



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

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

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		
						IRLML0040TRPBF* 56 mΩ, 3.6 A, LL		
	55					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						
		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		
	100					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					
			IRF5801* 2.2 mΩ, 0.6 A, NL					
	200	BSP297 1.8 Ω, 0.66 A, LL						
		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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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						
		BSP321P 900 mΩ, -0.98 A, NL						
	-100	BSP322P 800 mΩ, -1.0 A, LL						
		BSP316P 1.8 Ω, -0.68 A, LL			BSR316P 1.8 Ω, -0.36 A, LL			
		ISP650P06NM 65 mΩ, -3.7 A, NL				ISS17EP06LM 1.7 Ω, -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						
	-60	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					
			IRF59342TRPBF* 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		
	-30					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	

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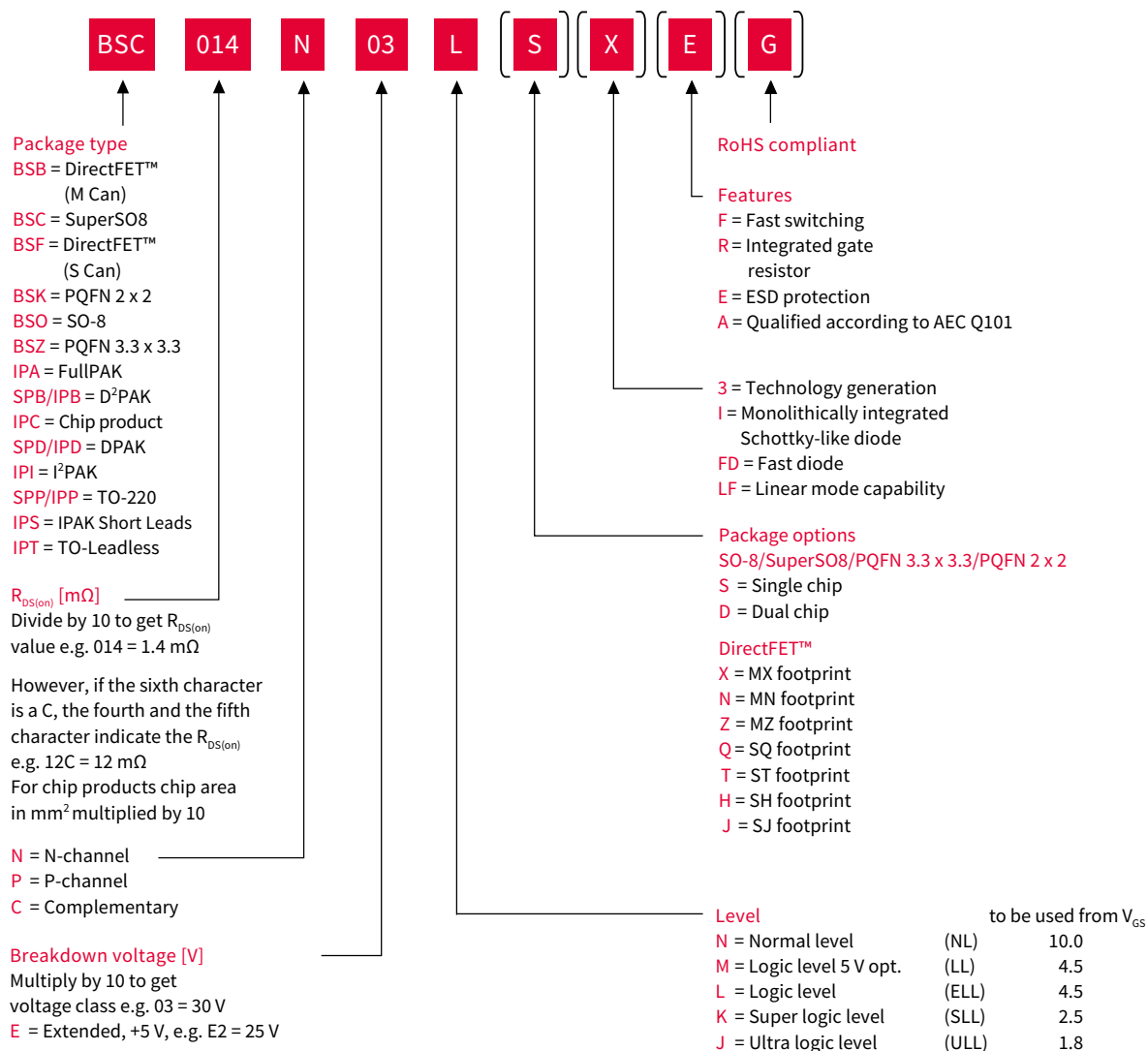
All products are qualified to Automotive AEC Q101 (except the parts marked with*)

1) R_{DS(on)} 4.5 V rated

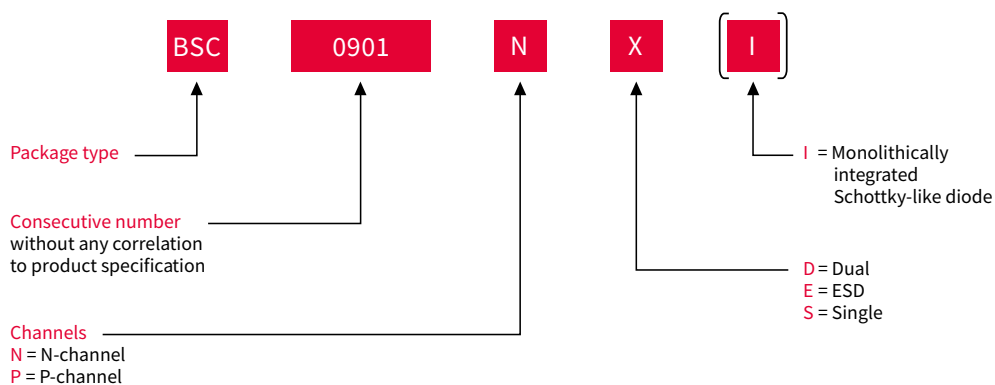
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Nomenclature

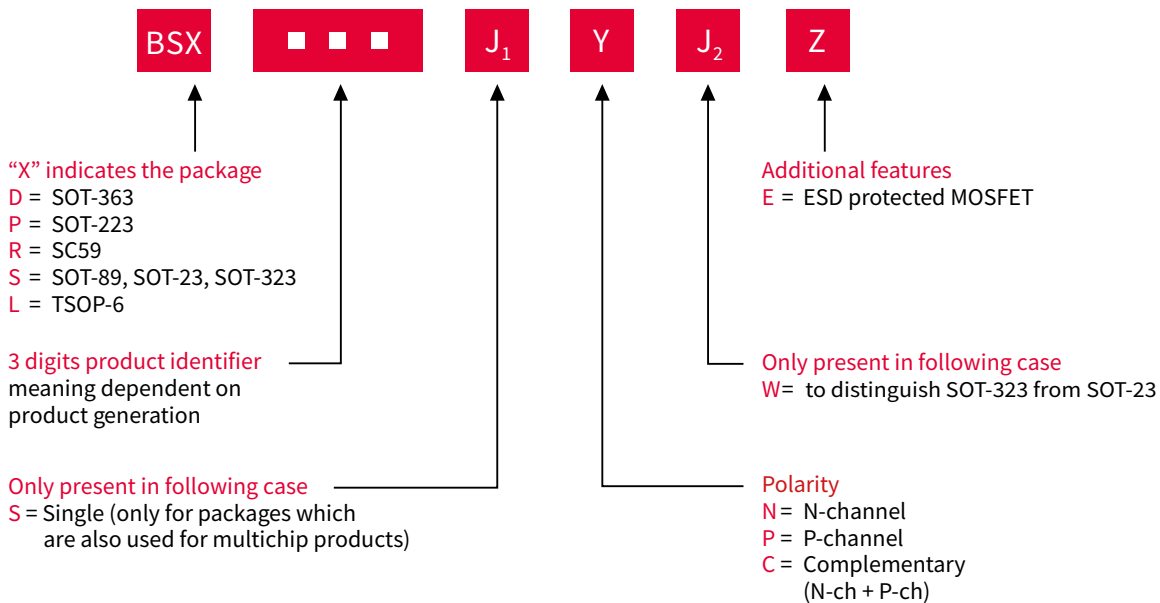
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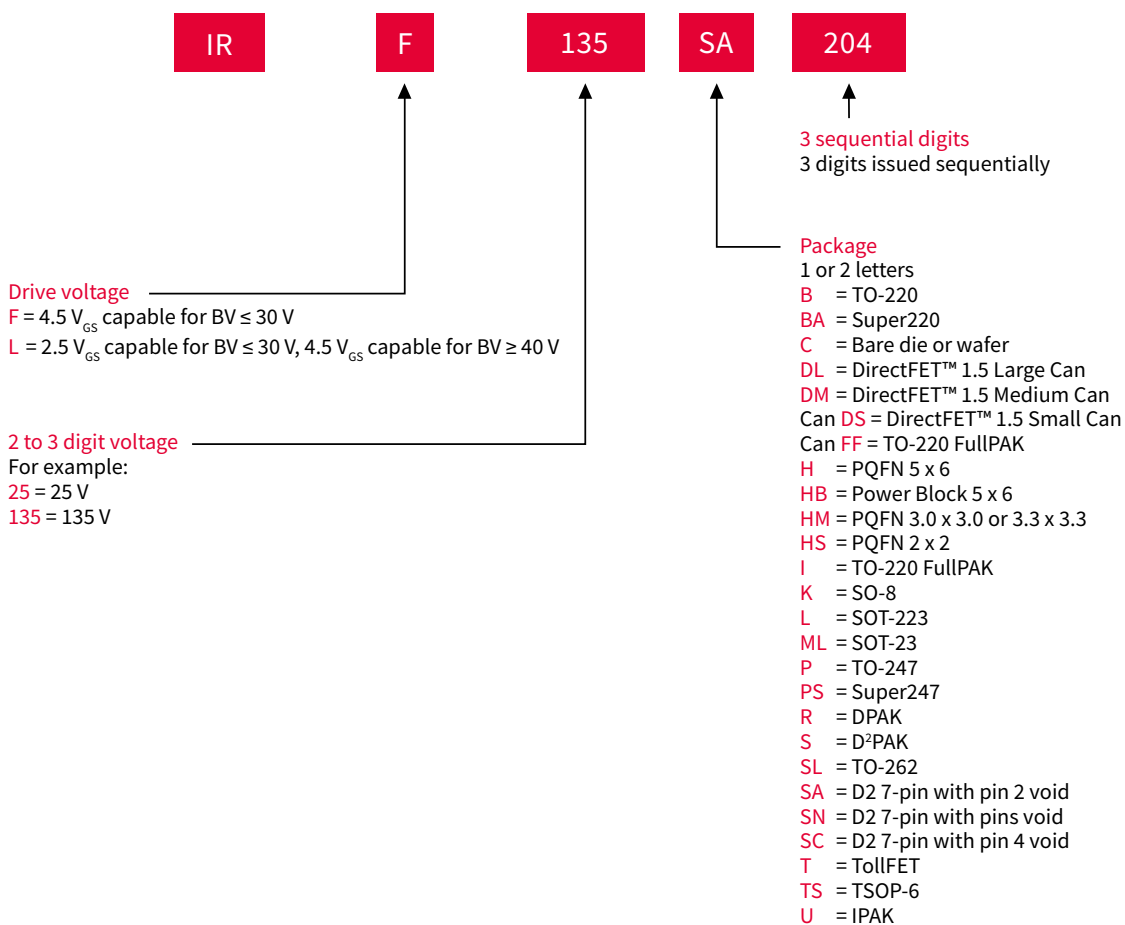
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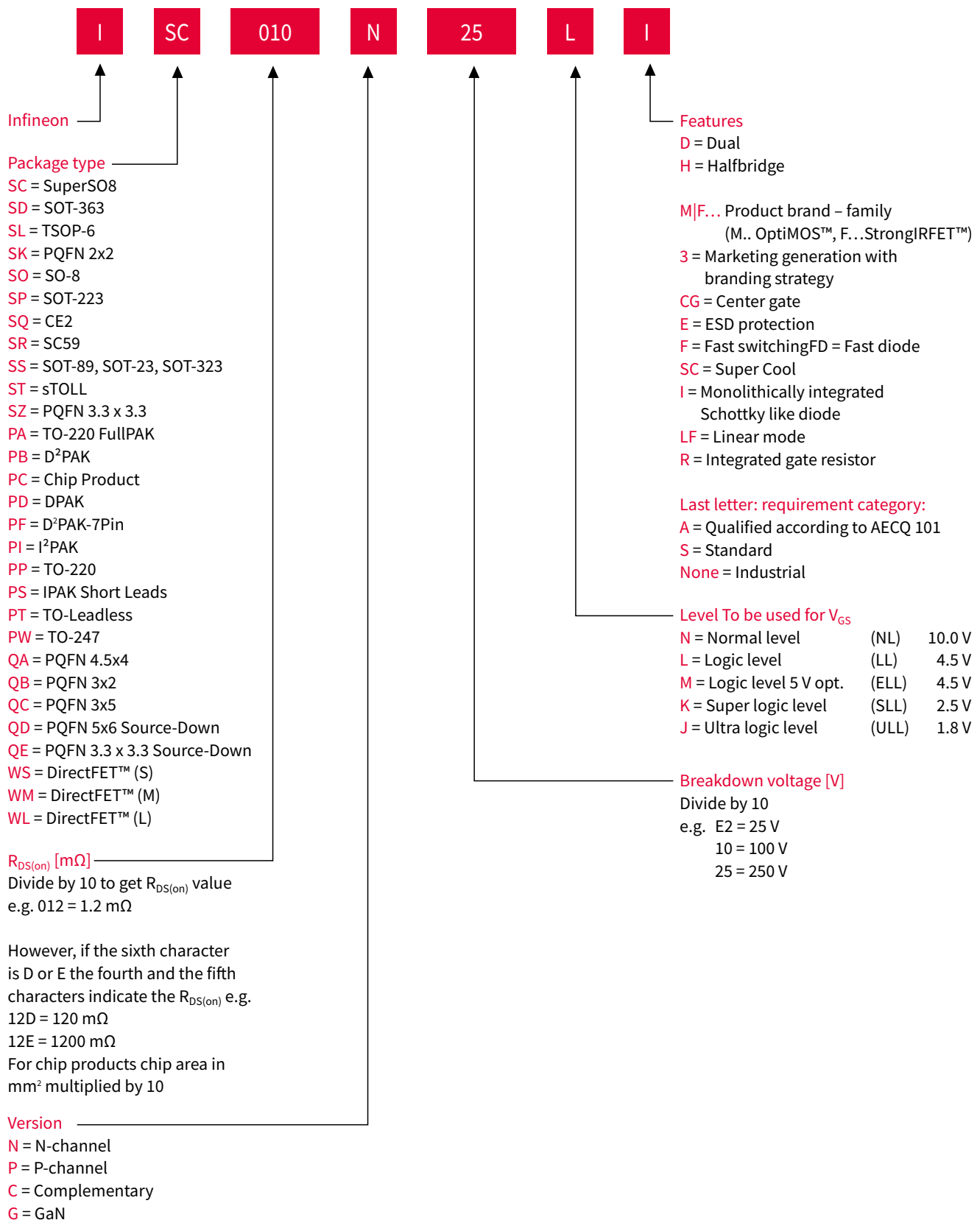
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StrongIRFET™ (from May 2015 to 2019)



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Infineon support for low voltage MOSFETs

Useful links and helpful information

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