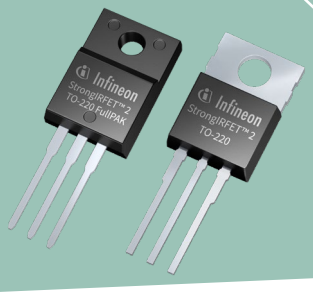


Product brief

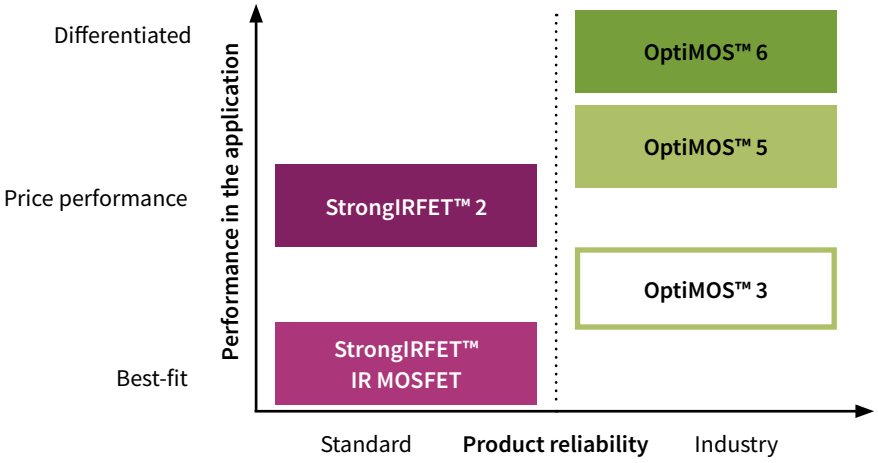
StrongIRFET™ 2 MOSFETs – 80 V/100 V

Right-fit products for a broad range of applications

The StrongIRFET™ 2 in TO-220 and TO-220 FullPack packages are the new generation of Power MOSFET technology addressing a wide range of applications such as adapter, TV, motor drives, e-scooter, battery management, light electric vehicles, robotics, power and gardening tools.

Introducing broad availability and excellent price/performance ratio, this new technology offers right-fit products with an easy choice for designers interested in convenient selection and purchasing. Optimized for both low and high switching frequencies, the family supports a broad range of applications enabling flexibility in design. This new technology offers 40% $R_{DS(on)}$ improvement and over 50% lower Qg compared to the previous StrongIRFET™ devices, translating into higher power efficiency for improved overall system performance. Increased current ratings allow for higher current carrying capability which eliminated the need to parallel multiple devices translating to lower BOM costs and board savings.

OptiMOS™ and StrongIRFET™ – addressing different customer requirements

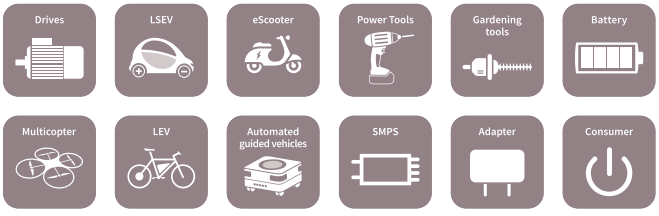


Key features

- Broad availability from distribution partners
- Excellent price/performance ratio
- Ideal for high and low switching frequency
- Industry standard footprint through-hole package
- High current rating

Key benefits

- Increased security of supply
- Right-fit products
- Supports a wide variety of applications
- Standard pinout allows for drop-in replacement
- Increased product ruggedness

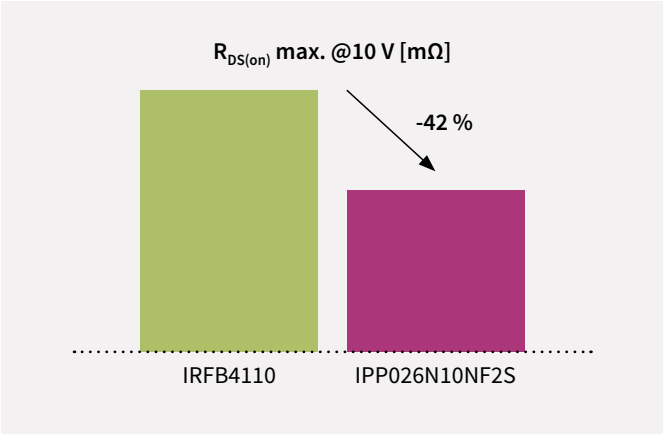


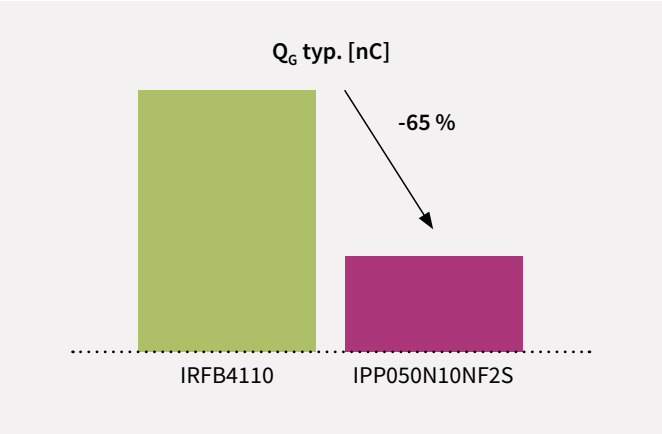
www.infineon.com/strongirfet2

StrongIRFET™ 2 MOSFETs – 80 V/100 V

Right-fit products for a broad range of applications

StrongIRFET™ 2 vs. previous generation 100 V performance comparison





Compared to the previous StrongIRFET™ generation in 100 V TO-220 package, StrongIRFET™ 2 shows significant improvements such as ~40 % lower $R_{DS(on)}$ and ~65% reduced Q_G. This results in better efficiency and longer life time.

Product portfolio

Package	Voltage [V]	Part number	$R_{DS(on)}$ max. [mΩ]
TO-220 	80 V	IPP016N08NF2S	1.6 mΩ
		IPP019N08NF2S	1.9 mΩ
		IPP024N08NF2S	2.4 mΩ
		IPP040N08NF2S	4.0 mΩ
		IPP055N08NF2S	5.5 mΩ
	100 V	IPP026N10NF2S	2.6 mΩ
		IPP050N10NF2S	5.0 mΩ
		IPP082N10NF2S	8.2 mΩ
		IPP129N10NF2S	12.9 mΩ
TO-220 FullPAK 	100 V	IPA030N10NF2S	3.0 mΩ
		IPA082N10NF2S	8.2 mΩ

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