

## Product brief

# StrongIRFET™ 2 MOSFETs – 80 V/100 V

Right-fit products for a broad range of applications

The new StrongIRFET™ 2 power MOSFETs in the TO-220 package are the latest generation of 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.

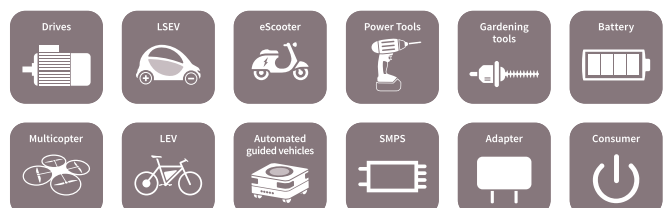
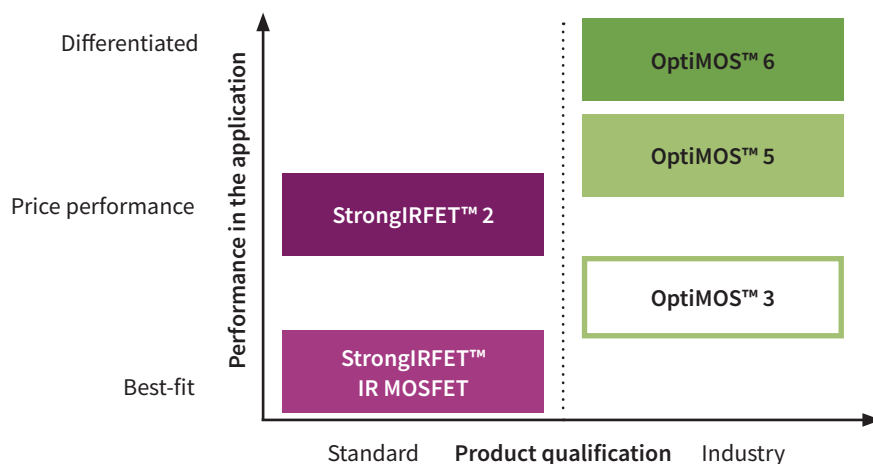
Featuring broad availability and excellent price/performance ratio, this new technology offers right-fit products with an easy choice for designers interested in convenient selection and purchasing. Optimized for both low and high switching frequencies, the family supports a broad range of applications enabling flexibility in design.

### 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

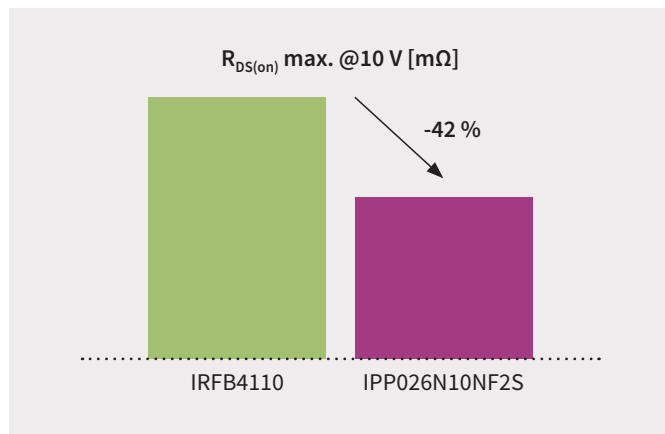
- > Increased security of supply
- > Right-fit products
- > Supports a wide variety of applications
- > Standard pinout allows for drop-in replacement
- > Increased product ruggedness



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## 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

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