

Product Brief

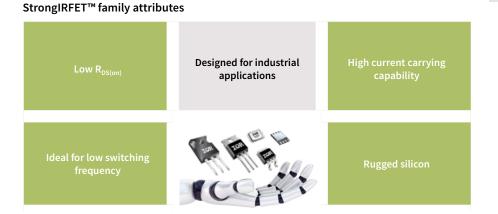
60 V StrongIRFET™ power MOSFET family Benchmark performance technology for battery powered applications

The StrongIRFET[™] MOSFET portfolio includes 60 V devices for a wide variety of industrial applications including power tools, light electric vehicle (LEV) inverters, DC motor drives, Li-Ion battery pack protection and switched mode power supply (SMPS) secondary-side synchronous rectification.

The new family of 60 V StrongIRFET[™] power MOSFETs feature ultra-low on-state resistance (R_{DS(on)}) for improved performance in low frequency applications, very high-current carrying capability, soft body diode, and 3 V typical threshold voltage to improve noise immunity. Each device in the family is 100 percent avalanche tested at industry highest avalanche current levels to ensure the most robust solution for demanding industrial applications. The devices are available in through hole and surface mount packages.

Key features and benefits

- > Designed for industrial applications
- > Ultra-low R_{DS(on)} at par with best in the market for some voltage nodes
- > High-current carrying capability, highest in the industry for some packages
- > Wide portfolio offers competitive pricing
- > Can compete with the older planar solution in most sockets
- Softer body diode improved performance in low frequency applications
- > 3 V typical threshold voltage to improve noise immunity





60 V StrongIRFET™ power MOSFET family

Benchmark performance technology for battery powered applications

Product portfolio for through hole packages

Package	Part number	R _{DS(on)} (max) at 10 V _{GS} [mΩ]	l _p (max) [A]
TO-220	IRFB7530PBF	2.0	195
	IRFB7534PBF	2.4	
	IRFB7537PBF	3.3	
	IRFB7540PBF	5.1	110
	IRFB7545PBF	5.9	85
	IRFB7546PBF	7.3	75
	IRF60B217*	9.0	60
TO-247	IRFP7530PBF	2.0	195
	IRFP7537PBF	3.3	

Product portfolio for surface mount packages

Package	Part number	R _{DS(on)} (max) at 10 V _{GS} [mΩ]	I _D (max) [A]
D ² PAK 7pin	IRFS7530TRL7PP	1.4	240
	IRFS7534TRL7PP	1.9	
D²PAK	IRFS7530PBF	2.0	195
	IRFS7534PBF	2.4	
	IRFS7537PBF	3.3	
	IRFS7540PBF	5.1	110
DPAK	IRFR7540TRPBF	4.8	
	IRFR7546TRPBF	7.9	71
	IRF60R217*	9.9	58
PQFN 5x6	IRFH7085TRPBF	3.2	100
	IRFH7545TRPBF	5.2	85
M-Can DirectFET™ (ME)	IRF7580MTRPBF	3.6	116

*New products added to the portfolio

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