

Advanced 200V Power MOSFET for High-Density Systems

200V POWER MOSFET



Features

- 200V N-Channel Power MOSFET
- Ultra-low RDS(on): 55 mΩ max @ VGS = 10V
- 34A continuous drain current capability
- Advanced Split-Gate Trench technology
- Excellent thermal performance: 0.9°C/W junction-to-case
- Compact DFN5060 (5 mm × 6 mm) package
- Low conduction loss for high efficiency
- Robust voltage margin for demanding applications



Benefits

Higher Efficiency: Low conduction losses reduce heat and improve overall system efficiency.

Reliable High-Power Operation: Strong thermal performance and 200V rating ensure stable operation with ample margin in demanding applications.

Applications



Industrial motor drives



Solar energy systems



Professional audio equipment



High-Efficiency 200V N-Channel MOSFET with Ultra-Low RDS(on)

Compact DFN5060 200V MOSFET for High Power Density Designs



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Channel	Drain-Source Voltage VDS (V)	Gate-Source Voltage VGS (V)	Drain Current ID (A)	Drain-Source On-Resistance RDS(ON) Max @VGS=10V (Ω)	Datasheet
MCAC055N20YH	Power MOSFET	DFN5060	N+N	200	±20	34	0.055	Info

Applications



Data Center & Telecom Infrastructure

- High-density server power supplies
- Telecom rectifiers and base station power units
- Blade server and rack-mounted DC-DC converters
- Network switches, routers, and edge computing power modules



Industrial Automation & Motion Control

- Industrial motor drives (AC/DC drives, servo drives)
- Robotics and collaborative robots (cobots) power stages
- Factory automation controllers and power distribution modules
- Industrial UPS and backup power systems



Renewable Energy & Energy Storage

- Solar energy systems (string and micro-inverters, DC optimizers)
- Battery energy storage systems (BESS) power stages
- DC-DC converters for renewable integration and MPPT controllers
- EV charging infrastructure auxiliary and DC bus converters



Professional Audio & Entertainment Systems

- Professional audio equipment and high-power Class D amplifiers
- Concert and touring PA systems and powered line arrays
- Studio reference amplifiers and monitoring systems
- Installed sound systems for venues, theaters, and houses of worship

CONTACT MCC TO REQUEST A SAMPLE

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