

Elevate Your Designs with MCC's 30V-60V Logic-Level N-Channel MOSFETs

30V-60V LOGIC-LEVEL MOSFET



Features

- **SGT Technology**
- **Excellent Thermal Performance:** Ensures stable operation under high power conditions
- **Low RDS(on):** Ranges from 1.1mΩ to 2.7mΩ, providing higher current capacity and reduced power losses
- **High Power Density:** DFN5060 package supports compact design needs
- **Logic-Level Gate Threshold Voltage:** Allows direct drive from MCU I/O ports, streamlining design



Benefits

Our new 30V-60V logic-level MOSFETs offer engineers the best of both worlds — a gate threshold voltage ($V_{GH(th)}$) above 1V to minimize switching sensitivity and low RDS(on) to reduce power losses while carrying higher currents.

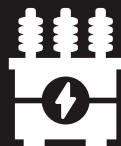
Applications



Battery Management Systems (BMS)



Lighting Controls



DC-DC Converters



Greater Gate Control and Low On-Resistance in a Compact DFN5060 Package

Low RDS(on) MOSFETs improve current capacity and efficiency in applications



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source Voltage VDS	Drain-Source On-Resistance RDS(on)	Gate-Threshold Voltage VGS(th)	Mounting Type	Datasheet
MCAC1DIN03YL	N-Channel Power MOSFET	DFN5060	30V	1.1mΩ	1.2V	Surface-Mount (SMD)	Info
MCAC1D4N04YL	N-Channel Power MOSFET	DFN5060	40V	1.4mΩ	1.3V	Surface-Mount (SMD)	Info
MCAC2D7N06YL	N-Channel Power MOSFET	DFN5060	60V	2.7mΩ	2.3V	Surface-Mount (SMD)	Info

Applications:



Battery Management Systems (BMS)

Ideal for managing and protecting battery packs in cordless tools and other battery-operated devices.

Lighting Controls

Effective for controlling LED lighting systems, providing efficient power management and dimming capabilities.

Motor Drives

Reliable for various motor control systems in applications such as robotics, automation, and electric vehicles.

DC-DC Converters

Efficient power conversion for compact designs in portable electronics and other power-sensitive applications.

Low-Side Switches

Suitable for switching applications requiring low RDS(on), ensuring minimal power loss and efficient operation

CONTACT MCC TO REQUEST A SAMPLE

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