

40V AUTO-GRADE MOSFETS



Features

- AEC-Q101 qualified for automotive reliability
- SGT technology for enhanced performance
- Low on-resistance for improved efficiency
- Low conduction losses to maximize energy savings
- High operating junction temperature ratings up to 175°C
- Excellent thermal performance ensures stability under load
- Low gate charge for rapid switching capabilities in demanding applications



Benefits

40V High-Performance Automotive MOSFETs engineered for the demanding auto sector.

Extreme automotive conditions have met their match thanks to AEC-Q101 qualification and operating junction temperatures of up to 175°C.

Applications



Servo motor drives

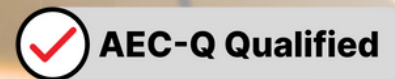


Automotive lighting



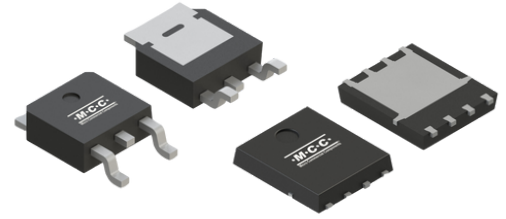
Energy storage systems

Rapid Switching & Reliability: MCC's 40V Auto-Grade MOSFETs



Low Gate Charge & Low RDS(on) Deliver High Performance

A maximum on-resistance of 3.8mΩ & a low gate charge



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source VoltageV _{DS}	Drain-Source On-ResistanceR _{DS(on)}	Mounting Type	Datasheet
<u>MCAC3D8N04YHQ</u>	N-Channel Power MOSFET	DFN5060	40V	3.8mΩ	Surface-Mount (SMD)	<u>Info</u>
<u>MCU3D8N04YHQ</u>	N-Channel Power MOSFET	DPAK (TO-252)	40V	3.8mΩ	Surface-Mount (SMD)	<u>Info</u>

Applications:



Power Management

- DC-DC converters
- Power supplies for automotive electronics

Motor Controls

- Motor drives
- Brushless DC motor controllers
- Servo motor drives

Lighting Solutions

- LED lighting control systems
- Automotive lighting (headlights, taillights)

Battery Management

- Battery charging systems
- Energy storage systems

CONTACT MCC TO REQUEST A SAMPLE

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