

# Upgrade high current switching with MCC's new Split-Gate Trench MOSFETs

MCB145N06Y-TP  
MCB160N04Y-TP

## Split-Gate Trench MOSFETs



### Features

- Split-gate trench (SGT) technology
- N-Channel MOSFET
- High current switching capacity
- Superior power performance
- Increased efficiency
- Enhanced reliability
- D2-PAK package
- Low RDS(on)
- Extremely low switching Loss
- Excellent stability and uniformity



### Benefits

Improved reliability and reduced heat dissipation ensure a longer lifespan than traditional MOSFETs.

Reduces power loss and enhances efficiency in high- power applications.

Can be driven with lower voltage, reducing the complexity and cost of the drive circuitry.

### Applications



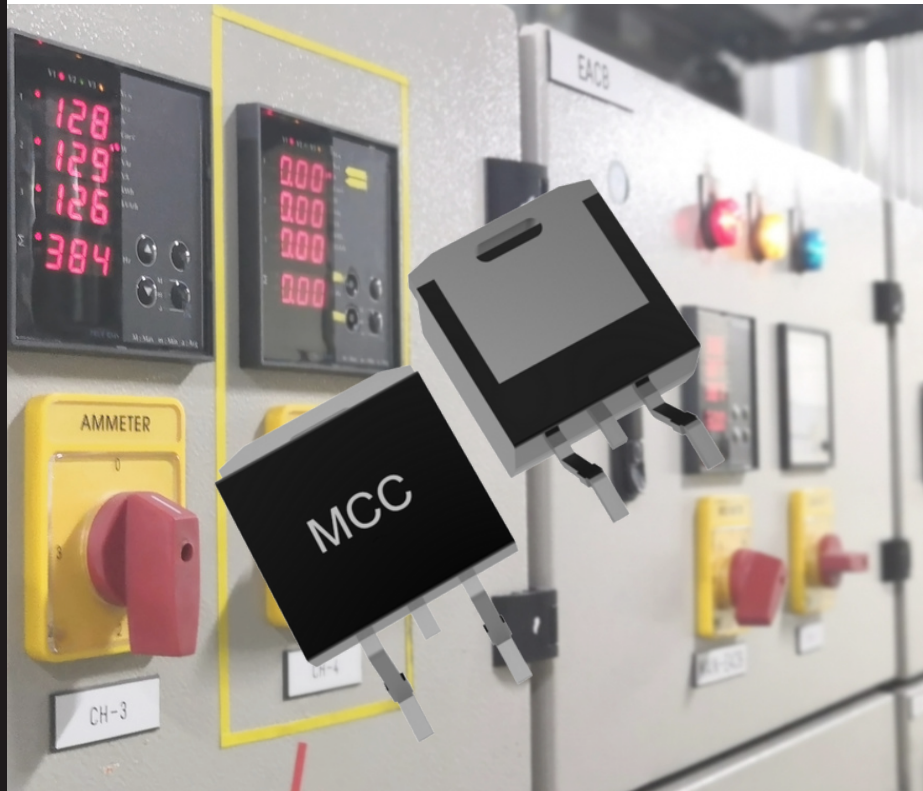
DC-DC Converters



Motor Controls

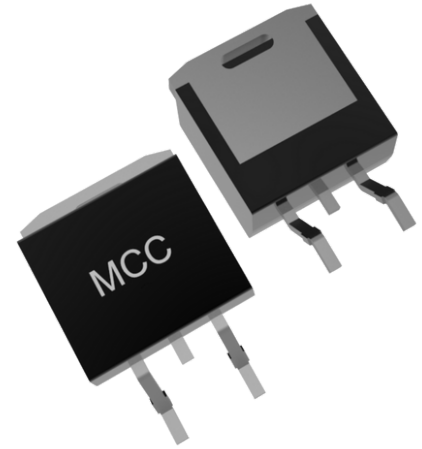


Solar Panel Charging



## Leverage Superior Power and Efficiency with These Two D2-PAK MOSFETs

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## Parametrics & Datasheets:

Product	FET Type	Package	Drain to Source Voltage (V <sub>dss</sub> )	Current – Continuous Drain (I <sub>d</sub> ) @ 25C	Mounting Type	Data Sheet
<a href="#">MCBI60N04Y-TP</a>	N-Chanel MOSFET	D2-PAK	40V	160A	Surface Mount	<a href="#">Info</a>
<a href="#">MCBI45N06Y-TP</a>	N-Chanel MOSFET	D2-PAK	60V	145A	Surface Mount	<a href="#">Info</a>

## Applications:



- DC-DC converters
- EV charging stations

- Motor controls
- Server power supplies
- Load switching devices
- Industrial controls
- Robotics
- HVAC systems

- Solar panel charging
- Battery energy storage systems
- Solar inverters

**CONTACT MCC TO REQUEST A SAMPLE**

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