

**30V P-CHANNEL MOSFET  
FOR HIGH-SIDE SWITCHING****Features**

- 30 V P-Channel MOSFET for high-side switching
- Ultra-low RDS(on): 3.0 mΩ @ VGS = -10V
- Handles up to 40A (with proper thermal design)
- Trench LV tech for high efficiency
- Excellent thermal performance: R<sub>θJC</sub> = 0.82°C/W
- Compact DFN5060
- 30V VDS for 12V rails & transient protection

**Benefits**

Maximize efficiency and reliability: Lower losses and better heat dissipation keep systems running cooler and more efficient under heavy loads.

Simplify design and save space: Eliminate extra high-side drivers for a cleaner layout and reduced board footprint in demanding applications.

**Applications**

Battery  
Management  
Systems



Power  
Management  
Units



Redundant  
DC  
supplies

**30V P-Channel  
MOSFET for High-Side  
Power Paths**

**3.0 mΩ RDS(on), 40 A  
Capability in a Compact  
DFN5060 Package with  
Trench LV Efficiency**

# Ultra-Low RDS(on) in a Compact DFN5060 Package



## Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source Voltage V <sub>DS</sub> (V)	Gate-Source Voltage V <sub>GS</sub> (v)	Drain-Source On-Resistance RDS(ON) Max @V <sub>GS</sub> =10V (Ω)	Mounting Type	Datasheet
<a href="#">MCAC3D0P03L</a>	P-Channel Power MOSFET	DFN5060	-30	±20	0.003	Surface mount	<a href="#">Info</a>

## Applications



### Enterprise & Data Infrastructure

- Power distribution and load switching in servers, storage systems, and networking equipment
- OR-ing and hot-swap paths in PSUs and rack systems
- Power rail gating in VRMs and backplane control

### Energy & Battery Systems

- Battery Management Systems (BMS) for pack/load switching
- UPS and portable power station high-side control
- Solar microinverter DC bus management

### Consumer & Embedded Electronics

- Power Management Units (PMUs) in compact devices
- High-side switching for SBCs, smart home hubs, and NAS systems
- Rail selection in DC-DC converters for home appliances

### Industrial & Automation

- Motor drive high-side supply switching
- Power rail control in PLCs and industrial PCs
- Protection and OR-ing in redundant DC supplies

**CONTACT MCC TO REQUEST A SAMPLE**

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