

40V N-CHANNEL MOSFET**Features**

- Power MOSFET for high-current applications
- 40 V drain-source voltage rating
- 166 A continuous drain current
- Very low RDS(ON): 2.6 mΩ max
- DFN5060 surface-mount package

**Benefits**

Higher efficiency and longer battery runtime due to very low on-resistance and minimal power loss

Robust current handling in a compact footprint, enabling reliable operation in space-constrained, high-power designs

Applications

Light electric vehicles



Power stages in gaming systems



Factory automation equipment

High-Efficiency 40V N-Channel MOSFET with Ultra-Low 2.6 mΩ RDS(on)



Compact DFN5060 Package for High-Current, Space-Constrained Power Designs

Low-Loss Power Switching Across Industrial and Energy Applications



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source Voltage V _{DS} (V)	Drain Current I _D (A)	Drain-Source On-Resistance R _{DS(ON)} Max @ V _{GS} =10V (Ω)	Datasheet
MCAC2D6N04Y	Power MOSFET	DFN5060	40	166	0.0026	Info

Applications



Power Tools & Energy Storage	Telecom, Networking & Data Infrastructure	Industrial & Motor Control	Power Management, ORing & Load Switching	Consumer, Computing & Embedded Systems
------------------------------	---	----------------------------	--	--

<ul style="list-style-type: none"> Battery protection in cordless tools like drills and saws Battery management in home and commercial energy storage systems High-current switching for lithium-ion packs in outdoor and garden equipment Pack-level MOSFETs for e-bikes, scooters, and other light electric vehicles 	<ul style="list-style-type: none"> DC-DC converters in telecom base stations and radio units Point-of-load converters for switches, routers, and optical network gear Bus converters and VRMs in data center and enterprise servers Power ORing for backup and redundancy in -48 V systems Hot-swap protection for line cards and rack-mounted systems 	<ul style="list-style-type: none"> Motor drive circuits for factory automation equipment BLDC and brushed motor controllers in robots and mobile robots (AGVs/AMRs) Power stages in industrial tools and handheld devices PWM motor control for HVAC systems, fans, and pump 	<ul style="list-style-type: none"> Power ORing in redundant power supplies Hot-swap and load switching for backplanes and plug-in modules High-side and low-side load switching in distributed power systems Protection and power-path control in DC power panels 	<ul style="list-style-type: none"> DC-DC converters in set-top boxes, gateways, and home networking devices Power stages in gaming systems, compact PCs, and embedded boards Battery protection and power-path control in portable and prosumer electronics
--	---	--	---	--

CONTACT MCC TO REQUEST A SAMPLE

mccsemi.com | +818.701.4933

