

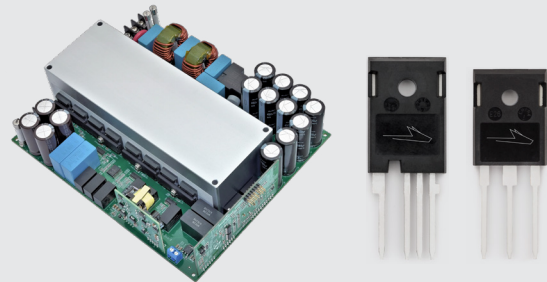


WOLFSPEED® AUTOMOTIVE QUALIFIED 650 V MOSFETs E-Series Silicon Carbide Power MOSFETs

ENABLING HIGH EFFICIENCY AND HIGH POWER DENSITY IN THE MOST DEMANDING AUTOMOTIVE APPLICATIONS

Delivering the industry’s highest power density in its class for unsurpassed efficiency, brought to you by the leaders in Silicon Carbide. Wolfspeed E-Series (E3M) Silicon Carbide 650 V 60mΩ MOSFETs in a TO-247 package, meet automotive AEC-Q101 standards and are PPAP Capable to maximize the benefits of Silicon Carbide while keeping the system design robust and cost effective. Offering lowest conduction and switching losses for users who need smaller, lighter, and highly efficient power conversion in demanding applications such as On-Board Chargers and DC/DC converters.

6.6KW HIGH POWER DENSITY BI-DIRECTIONAL EV ON-BOARD CHARGER [CRD-06600FF065N]



SPECIFICATIONS

Part Number	Blocking Voltage	$R_{DS(ON)}$ at 25°C	Current Rating at 25°(A)	Package
E3M0060065D	650 V	60 mΩ	37 A	TO-247-3L
E3M0060065K	650 V	60 mΩ	37 A	TO-247-4L



FEATURES

Automotive Qualified (AEC-Q101) and PPAP Capable

High Blocking Voltage with Low On-Resistance

High-Speed Switching with Low Capacitances

Fast Intrinsic Diode with Low Reverse Recovery (Q_{RR})

Availability of Kelvin Source Pin



BENEFITS

Higher System Efficiency and Reliability

Reduce Cooling Requirements

Increase Power Density

Enable Cost Efficient Systems



APPLICATIONS

On-Board Chargers (OBC)

High Voltage DC/DC Converters