

40V N-CHANNEL DSC POWER MOSFETS



Features

- AEC-Q101 qualified
- Split-gate trench (SGT) technology
- Superior overall thermal performance compared to DFN5060 package
- Exceptional top heatsink efficiency
- Low RDS(on)
- High power density package
- High junction temperature up to 175°C
- Compact DFN5060-DSC/DFN 5x6 package (5mm x 6mm) with dual-side cooling



Benefits

40V and on-resistance of only 1.1mΩ, MCACLS290N04YHE3 and MCACLS330N04YAHE3 are two N-channel power MOSFETs with unlimited possibilities.

The DFN5060 package with dual-side cooling (DSC) features thermal pads on the top and bottom with an additional transfer path on the top for junction-to-case thermal resistance as low as 0.67°C/W.

Applications



Automotive



Industrial



Consumer

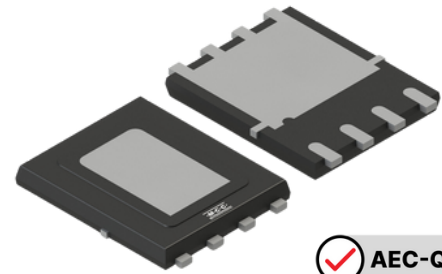
Superior Thermal Performance: MCC's Dual-Side Cooling MOSFETs



AEC-Q Qualified

Meet Two 40V Auto- Grade Components with Low RDS(on)

AEC-Q101 qualification ensures quality and reliability



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source Voltage VDS	Drain-Source On-Resistance RDS(on)	Continuous Drain Current ID	Mounting Type	Datasheet
MCACLS290N04YHE3	N-Channel Power MOSFET	DFN5060-DSC	40V	1.1 mΩ	290A	Surface-mount (SMD)	Info
MCACLS330N04YAHE3	N-Channel Power MOSFET	DFN5060-DSC	40V	1.1 mΩ	330A	Surface-mount (SMD)	Info

Applications:



Automotive

- Battery management systems (BMS)
- Electric power steering (EPS)
- Seat controls
- Lighting controls
- Electric water pumps
- Motor drives
- DC-DC converters

Industrial

- Battery management systems (BMS)
- Motor drives

Consumer

- Power tools
- Garden tools

CONTACT MCC TO REQUEST A SAMPLE

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