

1200V SiC Power MOSFETs



Features

- SiC MOSFET technology
- High blocking voltage with low RDS(on)
- High-speed switching with low capacitances
- Avalanche capability
- Halogen-free, "green" device
- Epoxy meets UL 94 V-0 Flammability Rating
- Lead-free finish/RoHS compliant



Benefits

Ideal for industrial applications, SICW080N120Y-BP and SICW080N120Y4 use SiC technology to provide twice the electron saturation velocity and ten times the dielectric breakdown field strength to deliver a high-powered component in a small package.

Applications



Battery
Charging



Industrial

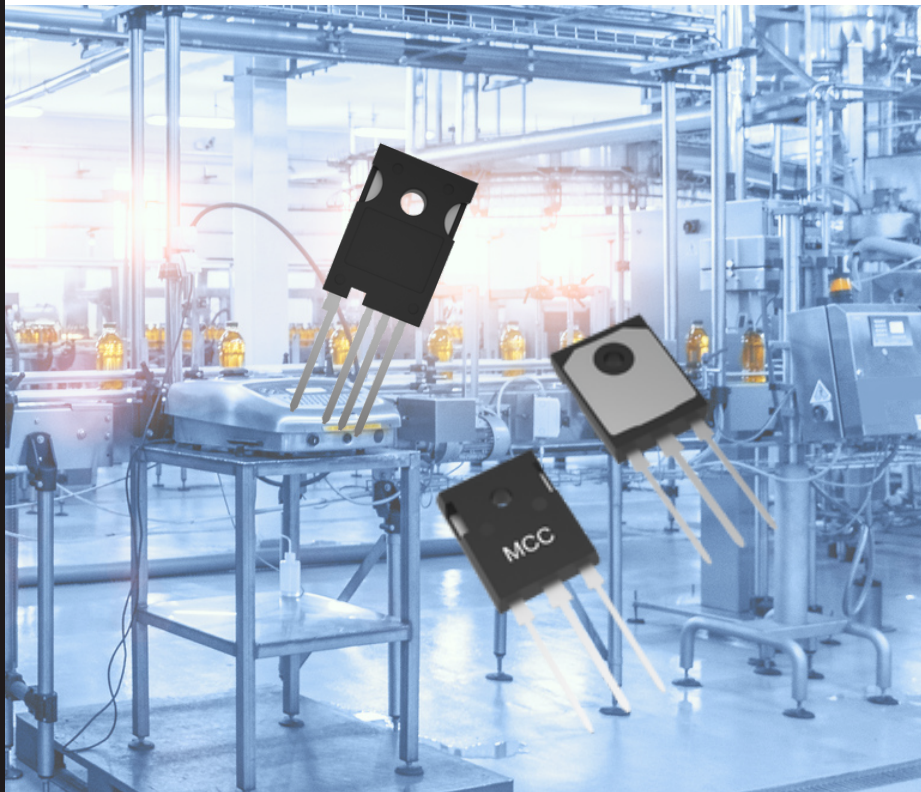


Renewable
Energy

1200V SiC N-CHANNEL Power MOSFETs

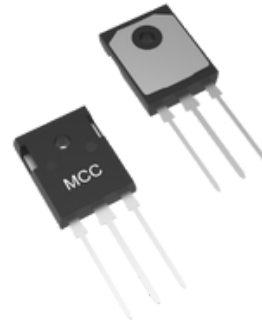
SICW080N120Y-BP
SICW080N120Y4

Package: TO-247-3
Package: TO-247-4

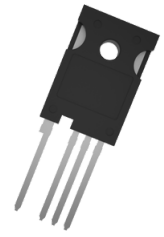


MCC'S NEW 1200V SILICON CARBIDE MOSFETS ARE FAST, RUGGED, AND CAPABLE.

1200V SiC N-Channel Power MOSFETs



SICW080N120Y-BP



SICW080N120Y4

Parametrics & Datasheets:

| Product | Type | Package | Drain-source Voltage (VDS) | Gate Source Voltage (VGSmax) | RDS(ON) MAX | Continuous Drain Current (ID) | Datasheet |
|---------------------------------|-------------|----------|----------------------------|------------------------------|-------------|-------------------------------|---------------------------|
| SICW080N120Y-BP | SiC MOSFETs | TO-247-3 | 1200V | -8V/ +22V | 0.085 | 38A | Datasheet |
| SICW080N120Y4 | SiC MOSFETs | TO-247-4 | 1200V | -8V/ +22V | 0.085 | 39A | Datasheet |

Applications:



Battery Charging



Industrial



Renewable Energy

- High-voltage DC/DC Converters
- Battery Chargers
- Industrial Chargers
- Off Board Chargers

- Power Factor Correction
- AC-DC High-Power SMPS
- Motor Drivers

- Solar Inverters
- Energy Storage
- Wind Turbines

**CONTACT MCC
TO REQUEST A SAMPLE**

mccsemi.com | +818.701.4933

