

200 V N-Channel MOSFET with Split Gate Trench technology

200V N-CHANNEL MOSFET



Features

- 200 V N-Channel MOSFET with Split Gate Trench technology
- Ultra-low $R_{DS(on)}$: 11 m Ω for reduced conduction losses
- Compact TOLL-8L surface-mount package
- Excellent thermal performance for high current handling
- Low parasitic inductance for fast, clean switching
- Maximum junction temperature: 175°C for robust operation



Benefits

Improved Efficiency & Power Density: Reduce losses and heat generation while enabling more compact, high-power designs.

Reliable Thermal Performance: Superior heat dissipation and high $T_j(max)$ ensure long-term reliability under demanding conditions.

Applications



Servo and
stepper motor



Emergency
power systems



Server power
modules



Ultra-low $R_{DS(on)}$: 11 m Ω for reduced conduction losses

Excellent thermal performance for high current handling



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source Voltage VDS (V)	Gate-Source Voltage VGS (V)	Drain Current ID (A)	Drain-Source On-Resistance RDS(ON) Max @ VGS=10V (Ω)	Datasheet
MCTL011N20YH	Power MOSFET	TOLL-8L	200	±20	102	0.011	Info

Applications



Industrial Motor Control & Drives

- Motor drivers for industrial pumps, fans, compressors, and conveyors
- Servo and stepper motor stages in motion control systems
- Traction and auxiliary drives in material-handling and factory equipment

Power Conversion & DC-DC Systems

- Isolated and non-isolated DC-DC converters in industrial and embedded systems
- Intermediate bus converters for distributed power architectures
- DC-link stages in inverter and motor drive front-ends

Backup Power & Energy Storage (UPS)

- UPS rectifier and inverter stages
- Battery charger and DC bus management in offline and online UPS
- Power conditioning stages in backup and emergency power systems

Data Center, Server & Telecom Power

- Server power modules (front-end AC/DC and secondary DC-DC stages)
- Power shelves and high-density rack supplies in data centers
- Telecom and networking power modules requiring high efficiency and compact layout

CONTACT MCC TO REQUEST A SAMPLE

mccsemi.com | +818.701.4933

