

**200V N-CHANNEL MOSFET****Features**

- 200 V N-Channel MOSFET with Split Gate Trench technology
- Ultra-low RDS(on): 11 mΩ 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 motorEmergency  
power systemsServer power  
modules

# 200 V N-Channel MOSFET with Split Gate Trench technology



**Ultra-low RDS(on):  
11 mΩ for reduced  
conduction losses**

# Excellent thermal performance for high current handling



## Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source Voltage V <sub>DS</sub> (v)	Gate-Source Voltage V <sub>GS</sub> (v)	Drain Current ID (A)	Drain-Source On-Resistance R <sub>DS(ON)</sub> Max @V <sub>GS</sub> =10V (Ω)	Datasheet
<a href="#">MCTL011N20YH</a>	Power MOSFET	TOLL-8L	200	±20	102	0.011	<a href="#">Info</a>

## 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](http://mccsemi.com) | +818.701.4933

