

100V N-CHANNEL MOSFET



Features

- Wide SOA
- Split-gate Trench (SGT) Technology
- Low On-Resistance
- Low Conduction Losses
- Low Gate Charge
- Low Gate Charge
- Excellent Thermal Performance: TOLL package facilitates superior heat dissipation.



SOA enhances safety and performance while overcoming common challenges engineers face when designing for high-power applications.

With a gate charge and onresistance of 2mΩ, our MOSFET also optimizes energy use at every angle, reducing operational costs.

Applications



Audio Motor Amplifiers Controls

Meet MCC's 100V N-Channel MOSFET with Wide SOA & Low RDS(on)



Efficient & Reliable Solution for Linear Mode Operation



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Computing



The 100V wide SOA MCTL2D0N10YHR with split-gate trench technology



Product Attributes, Parametrics & Datasheets

Product	Туре	Package		Drain-Source On- ResistanceRDS(on)		Datasheet
MCTL2D0N10YHR	N-channel Power MOSFET	TOLL 8-L	100V	2mΩ	Surface- mount (SMD)	<u>Info</u>

Applications:

Telecommunications	Computing	Audio Amplifiers	Motor Controls
 In-rush current limiting circuitry Signal amplification Power supplies for communication devices 	 Power management in servers Voltage regulation modules (VRMs) Load switching in data centers 	 Class D audio amplifiers Power supply systems for audio equipment Audio signal processing stages 	 Brushless DC motor drives Servo motor control systems Industrial automation applications

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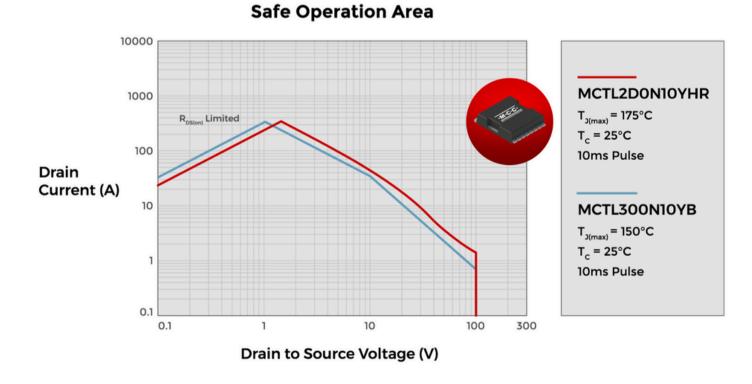
Designed to withstand junction temperatures of up to 175°C



SOA Comparison: MCTL2D0N10YHR & MCTL300N10YB

MCTL2D0N10YHR	MCTL300N10YB	Package
<u>ID @VDS=14V, tp=10ms</u>	30A	20A
<u>ID @VDS=50V, tp=10ms</u>	3.6A	2.3A
<u>ID @VDS=60V, tp=10ms</u>	2.7A	1.7A
<u>ID @VDS=100V, tp=10ms</u>	1.5A	0.7A

Comparison: MCTL2D0N10YHR & MCTL300N10YB



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