

# NVBLS1D5N10MC

## N-Channel PowerTrench® MOSFET, 100V, 300A, 1.5mΩ

### Product Overview

For complete documentation, see the data sheet.

Automotive Power MOSFET in a TOLL package for efficient designs with high thermal performance. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

#### Features

- Low RDS(on)
- Low QG and Capacitance
- RoHS Compliant
- AEC Q101- Qualified and PPAP Capable

#### Benefits

- Minimize Conduction Losses
- Minimize Driver Losses
- Minimize Switching Noise/EMI
- Automotive Qualified

#### Applications

- Switching Power Supplies
- Power switches (High side driver, Low side driver, H-Bridges, etc)
- Reverse Battery protection

#### End Products

- Solenoid driver - ABS, Fuel injection
- Motor Control - WPS, Wipers, Fans, Seats, etc.
- Load Switch - ECU, Chassis, Body

### Part Electrical Specifications

| Product           | Pricing (\$/Unit) | Compliance | Status | Channel Polarity | Configuration | $V_{DS}^{(BR)}$ Min (V) | $V_{GS}^{Max}$ (V) | $V_{GS}^{(th)}$ Max (V) | $I_D^{Max}$ (A) | $P_D^{Max}$ (W) | $R_{DS(on)}^{Max}$ @ $V_{GS} = 2.5V$ (mΩ) | $R_{DS(on)}^{Max}$ @ $V_{GS} = 4.5V$ (mΩ) | $R_{DS(on)}^{Max}$ @ $V_{GS} = 10V$ (mΩ) | $Q_g^{Typ}$ @ $V_{GS} = 4.5V$ (nC) | $Q_g^{Typ}$ @ $V_{GS} = 10V$ (nC) | $C_{iss}^{Typ}$ (pF) | Package Type |
|-------------------|-------------------|------------|--------|------------------|---------------|-------------------------|--------------------|-------------------------|-----------------|-----------------|---|---|--|------------------------------------|-----------------------------------|----------------------|--------------|
| NVBLS1D5N10M CTXG | 3.4584            |            | NEW    | N-Channel        |               | 100                     | 20                 | 4                       | 300             | 4.5             |   |   | 1.5                                      |                                    | 131                               | 10100                | TOLL 8L      |