



## Product Overview

### NTLUF4189NZ: Small Signal MOSFET 30V 1.5A 200 mOhm Single N-Channel UDFN6 with ESD Protection

For complete documentation, see the data sheet

#### Product Description

30 V, N-Channel with 0.5 A Schottky Barrier Diode, 1.6 x 1.6 x 0.55 mm  $\mu$ Cool™ Package

#### Features

- Low Qg and Capacitance
- Low Profile UDFN 1.6x1.6x0.55 mm
- Low Vf Schottky Diode
- Lead Free and Halide Free
- ESD Protected Gate

#### Benefits

- Minimize Switching Losses
- Board Space Saving
- Minimize Power Loss
- RoHS Compliance

#### Applications

- DC-DC Boost Converter
- Color Display and Camera Flash Regulators
- Optimized for Power Management in Portable Applications

#### End Products

- Portable Products such as Cell Phones, PMP, DSC, GPS, and others

#### Part Electrical Specifications

| Product        | Compliance             | Status | Channel Polarity | Configuration | $V_{DS}$ Min (V) | $V_{GS}$ Max (V) | $V_{GS(th)}$ Max (V) | $I_D$ Max (A) | $P_D$ Max (W) | $r_{DS(on)}$ Max @ $V_{GS} = 2.5$ V (m) | $r_{DS(on)}$ Max @ $V_{GS} = 4.5$ V (m) | $r_{DS(on)}$ Max @ $V_{GS} = 10$ V (m) | $Q_g$ Typ @ $V_{GS} = 4.5$ V (nC) | $Q_g$ Typ @ $V_{GS} = 10$ V (nC) | $Q_{gd}$ Typ @ $V_{GS} = 4.5$ V (nC) | $Q_{rr}$ Typ (nC) | $C_{iss}$ Typ (pF) | $C_{oss}$ Typ (pF) | $C_{rss}$ Typ (pF) | Package Type |
|----------------|------------------------|--------|------------------|---------------|------------------|------------------|----------------------|---------------|---------------|---|---|--|-----------------------------------|----------------------------------|--------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------|
| NTLUF4189NZTAG | Pb-free<br>Halide free | Active | N-Channel        | Single        | 30               | 8                | 1.5                  | 1.5           | 0.8           | 350                                     | 200                                     |  | 1.4                               |                                  | 0.4                                  | 2.1               | 95                 | 15                 | 10                 | UDFN-6       |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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