



Product Overview

NDF10N60Z: Power MOSFET 600V 10A 0.75  $\Omega$  Single N-Channel TO-220FP

For complete documentation, see the data sheet

Product Description

Power MOSFET 600V 0.750 Ohm Single N-Channel

FeaturesBenefits

- Low ON Resistance
  - Low Gate Charge
  - Fast switching
  - ESD diode-protected gate
  - 100% Avalanche Tested
  - This Device is Pb-Free, Halogen Free/BFR Free and RoHS Compliant
  - 100% Rg Tested
- Improves efficiency
  - Faster turn-on
  - Reduces dynamic power losses
  - ESD resistance

ApplicationsEnd Products

- Adapter (Notebook, Printer, Gaming)
  - ATX Power Supplies
  - Lighting Ballasts
  - LCD Panel Power
- SMPS
  - Lighting Ballast

Part Electrical Specifications

| Product    | Compliance             | Status | Channel Polarity | Configuration | $V_{DS(sat)}^{min}$ (V) | $V_{GS(on)}$ 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)          | Packaging Type |
|------------|------------------------|--------|------------------|---------------|-------------------------|----------------------|----------------------|---------------|---------------|---|---|--|-----------------------------------|----------------------------------|--------------------------------------|-------------------|--------------------|--------------------|-----------------------------|----------------|
| NDF10N60ZH | Pb-free<br>Halide free | Active | N-Channel        | Single        | 600                     | 30                   | 4.5                  | 10            | 39            |   |   |  | 47                                | 26                               | 3                                    | 1373              | 150                | 35                 | TO-220<br>FU<br>LLP<br>AK-3 |                |

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

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