



Product Overview

NTD4302: Power MOSFET 30V 18.5A 10 mOhm Single N-Channel DPAK

For complete documentation, see the data sheet

Product Description

NTD4302

Features

- Ultra Low $R_{DS(on)}$
- Higher Efficiency Extending Battery Life
- Logic Level Gate Drive
- Diode Exhibits High Speed, Soft Recovery
- Avalanche Energy Specified
- I_{DSS} Specified at Elevated Temperature
- DPAK Mounting Information Provided
- Pb-Free Packages are Available

Applications

- DC-DC Converters
- Low Voltage Motor Control
- Power Management in Portable and Battery Powered Products:
i.e., Computers, Printers, Cellular and Cordless Telephones, and PCMCIA Cards

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 @ $V_{GS} = 2.5V$ (m) | $r_{DS(on)}$ Max @ $V_{GS} = 4.5V$ (m) | $r_{DS(on)}$ Max @ $V_{GS} = 10V$ (m) | Q_g Typ @ $V_{GS} = 4.5V$ (nC) | Q_g Typ @ $V_{GS} = 10V$ (nC) | Q_{gd} Typ @ $V_{GS} = 4.5V$ (nC) | Q_{rr} Typ (nC) | C_{iss} Typ (pF) | C_{oss} Typ (pF) | C_{rss} Typ (pF) | Package Type |
|------------|------------------------|--------|------------------|---------------|------------------|------------------|----------------------|---------------|---------------|--|--|---------------------------------------|----------------------------------|---------------------------------|-------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------|
| NTD4302T4G | Pb-free Halide free | Active | N-Channel | Single | 30 | 20 | 3 | 68 | 75 | | 13 | 10 | | 55 | | 0.043 | 2050 | 640 | 225 | DPAK-3 |

For more information please contact your local sales support at www.onsemi.com

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