



Product Overview

NTHD3100C: Power MOSFET 20V 3.9A 80 mOhm Complementary ChipFET

For complete documentation, see the data sheet

Product Description

Power MOSFET Complementary, 20 V, +3.9 A/-4.4 A ChipFET™

Features

- Complementary N-Channel and P-Channel MOSFET
- Small Size, 40% Smaller than TSOP-6 Package
- Leadless SMD Package Provides Great Thermal Characteristics
- Trench P-Channel for Low On Resistance
- Low Gate Charge N-Channel for Test Switching
- Pb-Free Packages are Available

Applications

- DC-toDC Conversion Circuits
- Load Switch Applications Requiring Level Shift
- Drive Small Brushless DC Motors
- Ideal for Power Mangement Applications in Portable, Battery Powered Products

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	V <sub>DS</sub> (BR) Min (V)	V <sub>GS</sub> Max (V)	V <sub>GS</sub> (th) Max (V)	I <sub>D</sub> Max (A)	P <sub>D</sub> Max (W)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 2.5 V (m)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 4.5 V (m)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 10 V (m)	Q <sub>g</sub> Typ @ V <sub>GS</sub> = 4.5 V (nC)	Q <sub>g</sub> Typ @ V <sub>GS</sub> = 10 V (nC)	Q <sub>gd</sub> Typ @ V <sub>GS</sub> = 4.5 V (nC)	Q <sub>tr</sub> Typ (nC)	C <sub>iss</sub> Typ (pF)	C <sub>oss</sub> Typ (pF)	C <sub>rss</sub> Typ (pF)	Package Type
NTHD3100CT1G	Pb-free Halide free	Active	Complementary	Dual	20	12	1.2	3.9	3.1	115	80		2.3		0.7	6	165	80	25	ChipFET-8

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

Created on: 7/11/2015