



Product Overview

NTHD3102C: Power MOSFET 20V 5.5A 45 mOhm Complementary ChipFET

For complete documentation, see the data sheet

Product Description

Power MOSFET Complementary, 20 V +5.5 A/-4.2 A, ChipFET™

Features

- Complementary N-Channel and P-Channel MOSFET
- Small Size, 40% Smaller than a TSOP-6 Package
- Leadless, SMD Package provides Great Thermal Characteristics
- Leading Trench Technology for Low On Resistance
- Reduced Gate Charge to Improve Switching Response
- Pb-Free Package is Available

Applications

- DC-DC Conversion Circuits
- Load/Power Switching
- Single or Dual Cell Li-Ion Battery Supplied Devices
- Ideal for Power Management 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
NTHD3102CT1G	Pb-free Halide free	Active	Complementary	Dual	20	8	1.2	5.5	2.1	50	45		7.9		1.56	7	510	100	50	ChipFET-8

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