



Product Overview

NTHS4101P: Power MOSFET -20V -6.7A 34 mOhm Single P-Channel ChipFET

For complete documentation, see the data sheet

Product Description

Power MOSFET -20 V, -6.7 A, Single P-Channel ChipFET™

Features

- Offers an Ultra Low $R_{DS(on)}$ Solution in the ChipFet™ Package
- Miniature ChipFet™ Package with 40 % Smaller Footprint than TSOP-6, makes it an ideal device for Applications where board space is at a premium.
- Low Profile (< 1.1 mm) allows it to fit easily into extremely thin environments such as Portable Electronics.
- Designed to Provide Low $R_{DS(on)}$ at Gate Voltage (as low as 1.8V). The Operating Voltage used in many Logic ICs in Portable Electronics.
- Simplifies Circuit Design since Additional Boost Circuits for Gate Voltages are not required.
- Operated at Standard Logic Level Gate Drive, Facilitating Future Migrations to Lower Levels using the same Basic Topology.

Applications

- Optimized for Battery and Load Management Applications in Portable Equipment such as MP3 Players, Cell Phones, Digital Cameras, PDAs, and other Portable Applications
- Charge Control in Battery Chargers
- Buck and Boost Converters

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{DS(sat)}$ 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
NTHS4101PT1G	Pb-free Halide free	Active	P-Channel	Single	20	8	1.5	6.7	2.5	40	34		25		7		2100	290	200	ChipFET-8

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

Created on: 7/11/2015