

Product Overview

MGSF1N03L: Single N-Channel Small Signal Power MOSFET 30V, 2.1A, 100 mΩ

For complete documentation, see the data sheet.

These miniature surface mount MOSFETs low $R_{DS(on)}$ assure minimal power loss and conserve energy, making these devices ideal for use in space sensitive power management circuitry. Typical applications are dc-dc converters and power management in portable and battery-powered products such as computers, printers, PCMCIA cards, cellular and cordless telephones.

Features

- Low $r_{DS(on)}$ Provides Higher Efficiency and Extends Battery Life
- Miniature SOT-23 Surface Mount Package Saves Board Space
- Pb-Free Packages are Available

Applications

- DC-DC Converters
- Power Management

End Products

- Computers
- Printers
- PCMCIA Cards
- Cellular Phones
- Cordless Telephones

Part Electrical Specifications

Product	Compliance	Status	Chan- nel Polar- ity	Confi- gura- tion	$V_{SS}^{(BR)D}$ 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 (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} =$ 4.5 V (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} =$ 10 V (mΩ)	Q_g^{Typ} @ $V_{GS} =$ 4.5 V (nC)	Q_g^{Typ} @ $V_{GS} =$ 10 V (nC)	C_{iss}^{Typ} (pF)	Pack- age Type
MGSF1N03LT1G	Pb-free Halide free	Active	N- Chan- nel	Singl- e	30	20	2.4	2.1	0.69	-	145	100	-	3.2	140	SOT- 23-3

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

Created on: 10/14/2019