

Product Overview

NTMFSC004N08MC: N-Channel Dual Cool™ 56 PowerTrench® MOSFET 80V, 4.0mΩ

For complete documentation, see the data sheet.

This N-Channel MOSFET is produced using ON Semiconductor's advanced Power Trench® process. Advancements in both silicon and Dual Cool™ package technologies have been combined to offer the lowest rDS(on) while maintaining excellent switching performance by extremely low Junction-to-Ambient thermal resistance.

Features

- Dual Cool™ Top Side Cooling PQFN package
- High performance technology for extremely low rDS(on)
- Max rDS(on) = 4.0 mΩ at VGS = 10 V, ID = 44 A
- Max rDS(on) = 8.5 mΩ at VGS = 6 V, ID = 22 A
- 100% UIL Tested
- RoHS Compliant

Benefits

- improved thermals
- low conduction and switching losses

Applications

- Synchronous rectifier
- Primary mosfet on 48V isolated Converter

End Products

- AC-DC Power Supply
- Isolated DC-DC Converter

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	V _{DSS} (ER) Min (V)	V _{DSS} 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 Type
NTMFSC004N08MC	1.06	Pb-free	Active	N-Channel	Single	80	20	4	136	"_	"_	"_	4	"_	43.4	2980	DFN-8

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

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