

## **Product Overview**

# FDMC010N08C: N-Channel Shielded Gate PowerTrench® MOSFET 80 V, 51 A, 10 m $\Omega$ ,

For complete documentation, see the data sheet.

This N-Channel MV MOSFET is produced using ON Semiconductor's advanced PowerTrench® process that incorporates Shielded Gate technology. This process has been optimized to minimize on-state resistance and yet maintain superior switching performance with best in class soft body diode.

#### **Features**

- Low R<sub>DS(on)</sub> and Q<sub>g</sub>
- Very Low Q<sub>rr</sub>
- · Lowers switching noise / EMI
- · 100% UIL tested

## **Applications**

- · High performance DC-DC converters
- · AC-DC Synchronous Rectification
- · Motor Control
- Solar

### **Benefits**

- · Minimize conduction and switching losses
- Minimize EMI and voltage overshoot

#### **End Products**

- Netcom/Telecom
- · AC-Adapter
- · Power Tools

Part Electrical Specifications																
Product	Compliance	Status	Chan nel Polari ty	Confi gurati on	V <sub>(BR)D</sub> SS Min (V)	V <sub>GS</sub> Max (V)	V <sub>GS(th)</sub> Max (V)	I <sub>D</sub> Max (A)	P <sub>D</sub> Max (W)	$R_{DS(on)}$ Max @ $V_{GS}$ = 2.5 V (m $\Omega$ )	@	$R_{DS(on)}$ Max @ $V_{GS}$ = 10 V (m $\Omega$ )	@	Q <sub>g</sub> Typ @ V <sub>GS</sub> = 10 V (nC)	C <sub>iss</sub> Typ (pF)	Pack age Type
FDMC010N08C	Pb-free Halide free	Active	N- Chan nel	Singl e	80	20	4	51	2.4	-	25	10	10	15	1070	PQF N-8

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

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