





FDMC007N08LCDC

Manufacturer Part Number	FDMC007N08LCDC
Manufacturer	onsemi
Allelco Part Number	32D-FDMC007N08LCDC
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 80V 64A 8PQFN
Package	8-PowerWDFN
Data sheet	FDMC007N08LCDC.pdf
RoHs Status	 ROHS3 Compliant



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Specifications





FDMC007N08LCDC Tech Specifications

FDMC007N08LCDC - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	2.5V @ 130µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	3070 pF @ 40 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	44 nC @ 10 V
Supplier Device Package	8-PQFN (3.3x3.3)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	6.8mOhm @ 22A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	57W (Tc)	Drain to Source Voltage (Vdss)	80 V
Package / Case	8-PowerWDFN	Current - Continuous Drain (Id) @ 25°C	64A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDMC007

Parts with Similar Specifications


The three parts on the right have similar specifications to onsemi FDMC007N08LCDC

Product Attribute	 NO PICTURE			
Part Number	FDMC007N08LCDC	FDMC0208	FDMC012N03	FDMC007N08LC
Manufacturer	onsemi	onsemi	onsemi	onsemi
Technology	MOSFET (Metal Oxide)	-	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Input Capacitance (Ciss) (Max) @ Vds	3070 pF @ 40 V	-	8183 pF @ 15 V	2940 pF @ 40 V
FET Feature	-	-	-	-
Operating Temperature	-55°C ~ 150°C (TJ)	-	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
FET Type	N-Channel	-	N-Channel	N-Channel
Series	PowerTrench®	*	PowerTrench®	Automotive, AEC-Q101, PowerTrench®
Vgs (Max)	±20V	-	±12V	±20V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	-	4.5V, 10V	4.5V, 10V
Package	Tape & Reel (TR)	Bulk	Tape & Reel (TR)	Tape & Reel (TR)
Vgs(th) (Max) @ Id	2.5V @ 130µA	-	2V @ 250µA	2.5V @ 120µA
Base Product Number	FDMC007	FDMC02	FDMC012	FDMC007
Package / Case	8-PowerWDFN	-	8-PowerWDFN	8-PowerWDFN
Mounting Type	Surface Mount	-	Surface Mount	Surface Mount
Rds On (Max) @ Id, Vgs	6.8mOhm @ 22A, 10V	-	1.23mOhm @ 35A, 10V	7mOhm @ 21A, 10V
Gate Charge (Qg) (Max) @ Vgs	44 nC @ 10 V	-	110 nC @ 10 V	41 nC @ 10 V
Power Dissipation (Max)	57W (Tc)	-	2.3W (Ta), 64W (Tc)	57W (Tc)
Current - Continuous Drain (Id) @ 25°C	64A (Tc)	-	35A (Ta), 185A (Tc)	66A (Tc)
Drain to Source Voltage (Vdss)	80 V	-	30 V	80 V
Supplier Device Package	8-PQFN (3.3x3.3)	-	Power33	8-PQFN (3.3x3.3), Power33


FDMC007N08LCDC Datasheet PDF


Download FDMC007N08LCDC pdf datasheets and onsemi documentation for FDMC007N08LCDC - onsemi.

Datasheets


FDMC007N08LCDC.pdf

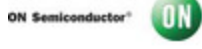



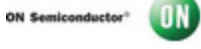

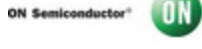
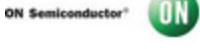

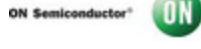
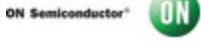

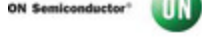
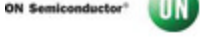


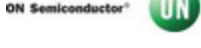

Environmental Information


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Customers Also Interested in

Recommended Products

 FDMC0208 onsemi MOSFET N-CH	 FDMC0223 Fairchild Semiconductor N-CHANNEL POWER TRENCH SYNCFET	 FDMB3900AN MOS Fairchild (onsemi)	 FDMB3900AN Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI	 FDMC012N03 onsemi MOSFET N-CH 30V 35A/185A POWER33	 FDMB3900N onsemi INTEGRATED CIRCUIT
 FDMC007N08LC onsemi MOSFET N-CHANNEL 80V 66A 8PQFN	 FDMB2308PZ onsemi MOSFET 2P-CH MLP2X3	 FDMC0208 Fairchild Semiconductor N-CHANNEL POWER TRENCH MOSFET	 FDMC013P030Z onsemi P-CHANNEL POWER TRENCH MOSFET -30	 FDMC010N08C onsemi MOSFET N-CH 80V 11A/51A POWER33	 FDMB3900AN onsemi MOSFET 2N-CH 25V 7A 8MLP MICRO
 FDMC007N30D onsemi MOSFET 2 N-CHANNEL 30V 46A 8MLP	 FDMB3800N onsemi MOSFET 2N-CH 30V 8MLP MICROFET	 FDMB3800N MOS Fairchild (onsemi)	 FDMC0202S Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR	 FDMC0070N30D AMI Semiconductor/onsemi	 FDMC008N08C onsemi MOSFET N-CHANNEL 80V 60A 8PQFN

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
- > Use our account for the shipment. Refer to the table below for the approximate charges.
(Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

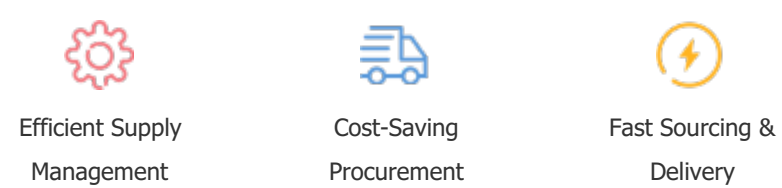
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

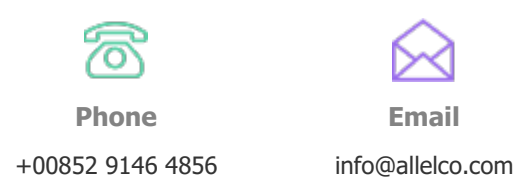
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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