



FDMT800100DC

Manufacturer Part Number	FDMT800100DC
Manufacturer	onsemi
Allelco Part Number	32D-FDMT800100DC
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 100V 24A/162A 8DUAL
Package	8-PowerVDFN
Data sheet	FDMT800100DC.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

FDMT800100DC - onsemi.New Original in Stock. Download Linear Technology FDMT800100DC datasheet/specifications on AllelcoElec.com.

Request a quote for FDMT800100DC, please send us email: info@allelco.com

Specifications

FDMT800100DC Tech Specifications

FDMT800100DC - 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	4V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	7835 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	111 nC @ 10 V
Supplier Device Package	8-Dual Cool™88	FET Type	N-Channel
Series	Dual Cool™, PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	2.95mOhm @ 24A, 10V	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Power Dissipation (Max)	3.2W (Ta), 156W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	8-PowerVDFN	Current - Continuous Drain (Id) @ 25°C	24A (Ta), 162A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDMT800100

Parts with Similar Specifications

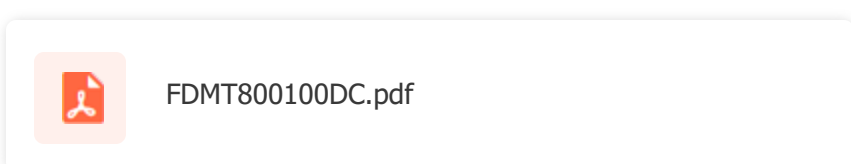
The three parts on the right have similar specifications to onsemi FDMT800100DC

Product Attribute	NO PICTURE			
Part Number	FDMT800100DC	FDMT80060DC	FDMS8888	FDMS8888
Manufacturer	onsemi	onsemi	onsemi	Fairchild Semiconductor
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Base Product Number	FDMT800100	FDMT80060	FDMS88	-
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Bulk
Power Dissipation (Max)	3.2W (Ta), 156W (Tc)	3.2W (Ta), 156W (Tc)	2.5W (Ta), 42W (Tc)	2.5W (Ta), 42W (Tc)
FET Feature	-	-	-	-
Drain to Source Voltage (Vdss)	100 V	60 V	30 V	30 V
Vgs (Max)	±20V	±20V	±20V	±20V
Rds On (Max) @ Id, Vgs	2.95mOhm @ 24A, 10V	1.1mOhm @ 43A, 10V	9.5mOhm @ 13.5A, 10V	9.5mOhm @ 13.5A, 10V
Supplier Device Package	8-Dual Cool™88	8-Dual Cool™88	8-PQFN (5x6)	8-PQFN (5x6)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs(th) (Max) @ Id	4V @ 250µA	4.5V @ 250µA	2.5V @ 250µA	2.5V @ 250µA
Drive Voltage (Max Rds On, Min Rds On)	6V, 10V	8V, 10V	4.5V, 10V	4.5V, 10V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Current - Continuous Drain (Id) @ 25°C	24A (Ta), 162A (Tc)	43A (Ta), 292A (Tc)	13.5A (Ta), 21A (Tc)	13.5A (Ta), 21A (Tc)
Gate Charge (Qg) (Max) @ Vgs	111 nC @ 10 V	238 nC @ 10 V	33 nC @ 10 V	33 nC @ 10 V
Package / Case	8-PowerVDFN	8-PowerVDFN	8-PowerTDFN	8-PowerTDFN
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Series	Dual Cool™, PowerTrench®	Dual Cool™, PowerTrench®	PowerTrench®	PowerTrench®
Input Capacitance (Ciss) (Max) @ Vds	7835 pF @ 50 V	20170 pF @ 30 V	1585 pF @ 15 V	1585 pF @ 15 V

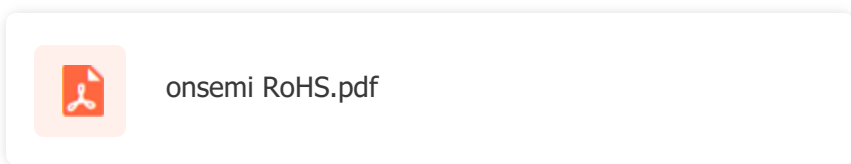
FDMT800100DC Datasheet PDF

Download FDMT800100DC pdf datasheets and onsemi documentation for FDMT800100DC - onsemi.

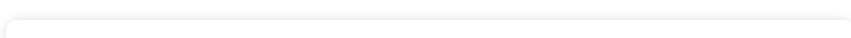
Datasheets



Environmental Information



PCN Design/Specification





















PCN Packaging

Mult Devices 24/Oct/2017.pdf

Package Change 21/Apr/2021.pdf

Customers Also Interested in

Recommended Products

 FDMS9600S MOS AMI Semiconductor/onsemi	 FDMT80060DC onsemi MOSFET N-CH 60V 43A/292A 8DUAL	 FDMS9409 Fairchild (onsemi)	 FDMS9408_F085 Fairchild (onsemi)	 FDMS8888 onsemi MOSFET N-CH 30V 13.5A/21A 8PQFN	 FDMS9620S MOS Fairchild (onsemi)
 FDMS9620S onsemi MOSFET 2N-CH 30V 8MLP PWR56	 FDMT800100DC MOS Fairchild (onsemi)	 FDMS9600S onsemi MOSFET 2N-CH 30V 12A/16A POWER56	 FDMS8888 Fairchild Semiconductor MOSFET N-CH 30V 13.5A/21A 8PQFN	 FDMS9410 Fairchild (onsemi)	 FDMS8888 MOS Fairchild (onsemi)
 FDMS9408 Fairchild Semiconductor N-CHANNEL MOSFET	 FDMS9411 Fairchild (onsemi)	 FDMS9410-F085 onsemi MOSFET N-CH 40V 50A POWER56	 FDMT800120DC onsemi MOSFET N-CH 120V 20A 8DLCOOL88	 FDMT80080DC onsemi MOSFET N-CH 80V 36A/254A 8DUAL	 FDMS8D8N15C onsemi MOSFET N-CH 150V 12.2A/85A 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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