



Image may be representation.  
See specifications for product details.

## FQD12N20LTM-F085

Manufacturer Part Number	<b>FQD12N20LTM-F085</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FQD12N20LTM-F085
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CH 200V 9A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	<b>FQD12N20L.pdf</b>
RoHS Status	<b>ROHS3 Compliant</b>

**Get a Quote**



FQD12N20LTM-F085 - onsemi.New Original in Stock. Download Linear Technology FQD12N20LTM-F085 datasheet/specifications on AllelcoElec.com.  
Request a quote for FQD12N20LTM-F085, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

FQD12N20LTM-F085 Tech Specifications  
FQD12N20LTM-F085 - 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	2V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	1080 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	21 nC @ 5 V
Supplier Device Package	TO-252AA	FET Type	N-Channel
Series	Automotive, AEC-Q101, QFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	280mOhm @ 4.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	5V, 10V
Power Dissipation (Max)	2.5W (Ta), 55W (Tc)	Drain to Source Voltage (Vdss)	200 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	9A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FQD12N20

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FQD12N20LTM-F085

Product Attribute				
Part Number	FQD12N20LTM-F085	<b>FQD12N20TM</b>	<b>FQD12P10TM</b>	<b>FQD12P10TM</b>
Manufacturer	onsemi	Fairchild Semiconductor	onsemi	Fairchild Semiconductor
FET Feature	-	-	-	-
Rds On (Max) @ Id, Vgs	280mOhm @ 4.5A, 10V	280mOhm @ 4.5A, 10V	290mOhm @ 4.7A, 10V	290mOhm @ 4.7A, 10V
Power Dissipation (Max)	2.5W (Ta), 55W (Tc)	2.5W (Ta), 55W (Tc)	2.5W (Ta), 50W (Tc)	2.5W (Ta), 50W (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)	5V, 10V	10V	10V	10V
Input Capacitance (Ciss) (Max) @ Vds	1080 pF @ 25 V	910 pF @ 25 V	800 pF @ 25 V	800 pF @ 25 V
Supplier Device Package	TO-252AA	TO-252, (D-Pak)	TO-252AA	TO-252, (D-Pak)
Vgs(th) (Max) @ Id	2V @ 250µA	5V @ 250µA	4V @ 250µA	4V @ 250µA
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Package	Tape & Reel (TR)	Bulk	Tape & Reel (TR)	Bulk
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Current - Continuous Drain (Id) @ 25°C	9A (Tc)	9A (Tc)	9.4A (Tc)	9.4A (Tc)
Gate Charge (Qg) (Max) @ Vgs	21 nC @ 5 V	23 nC @ 10 V	27 nC @ 10 V	27 nC @ 10 V
Base Product Number	FQD12N20	-	FQD1	-
Vgs (Max)	±20V	±30V	±30V	±30V
FET Type	N-Channel	N-Channel	P-Channel	P-Channel
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63
Series	Automotive, AEC-Q101, QFET®	QFET®	QFET®	QFET®
Drain to Source Voltage (Vdss)	200 V	200 V	100 V	100 V

### FQD12N20LTM-F085 Datasheet PDF

Download FQD12N20LTM-F085 pdf datasheets and onsemi documentation for FQD12N20LTM-F085 - onsemi.

#### Datasheets

[FQD12N20L.pdf](#)

#### Environmental Information

[onsemi RoHS.pdf](#)

#### PCN Design/Specification

Logo 17/Aug/2017.pdf

Description Chg 01/Apr/2016.pdf

### PCN Packaging

Mult Devices 24/Oct/2017.pdf

### PCN Part Number

Mult Device Part Number Chg 30/May/2017.pdf

### PCN Obsolescence/ EOL

EOL NOTICE 30/Mar/2023.pdf

## Customers Also Interested in

### Recommended Products

<b>FQD12N60LE</b> Fairchild (onsemi)	<b>FQD12P10 MOS</b> Fairchild (onsemi)	<b>FQD1218ME/IH-5461</b> PHI	<b>FQD12N20TM</b> Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 9	<b>FQD12P10TM</b> onsemi MOSFET P-CH 100V 9.4A TO252	<b>FQD12N20</b> Fairchild (onsemi)
<b>FQD12P10TM</b> Fairchild Semiconductor MOSFET P-CH 100V 9.4A TO252	<b>FQD12N20LTM</b> onsemi MOSFET N-CH 200V 9A DPAK	<b>FQD12N20LTM MOS</b> Fairchild (onsemi)	<b>FQD12N20LTF</b> onsemi MOSFET N-CH 200V 9A DPAK	<b>FQD12N20L</b> Fairchild (onsemi)	<b>FQD12N20TM MOS</b> Fairchild (onsemi)
<b>FQD12N20LTM</b> Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 9	<b>FQD12P10TF</b> onsemi MOSFET P-CH 100V 9.4A TO252	<b>FQD12N10 MOS</b> Fairchild (onsemi)	<b>FQD12N20TM</b> onsemi MOSFET N-CH 200V 9A DPAK	<b>FQD12P10</b> Fairchild (onsemi)	<b>FQD12N10</b> Fairchild (onsemi)

## 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.



### Your Faithful Supply Chain Partner -

- Efficient Supply Management
- Cost-Saving Procurement
- Fast Sourcing & Delivery

Contact us if you have any questions.

- Phone  
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### Certifications & Memberships



View More

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