



Image may be representation.
See specifications for product details.



FQB5N90TM

Manufacturer Part Number	FQB5N90TM
Manufacturer	onsemi
Allelco Part Number	32D-FQB5N90TM
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 900V 5.4A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	FQB5N90.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

FQB5N90TM - onsemi.New Original in Stock. Download Linear Technology FQB5N90TM datasheet/specifications on AllelcoElec.com.
Request a quote for FQB5N90TM, please send us email: info@allelco.com

Specifications

FQB5N90TM Tech Specifications
FQB5N90TM - 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	5V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1550 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	40 nC @ 10 V
Supplier Device Package	D ² PAK (TO-263)	FET Type	N-Channel
Series	QFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	2.30hm @ 2.7A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	3.13W (Ta), 158W (Tc)	Drain to Source Voltage (Vdss)	900 V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	5.4A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FQB5N90

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FQB5N90TM

Product Attribute				
Part Number	FQB5N90TM	FQB5P10TM	FQB5N50TM	FQB5P20TM
Manufacturer	onsemi	onsemi	onsemi	onsemi
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Vgs (Max)	±30V	±30V	±30V	±30V
FET Feature	-	-	-	-
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Supplier Device Package	D ² PAK (TO-263)	D ² PAK (TO-263)	D ² PAK (TO-263)	D ² PAK (TO-263)
Rds On (Max) @ Id, Vgs	2.30hm @ 2.7A, 10V	1.050hm @ 2.25A, 10V	1.80hm @ 2.25A, 10V	1.40hm @ 2.4A, 10V
Base Product Number	FQB5N90	FQB5	FQB5	FQB5
Series	QFET®	QFET®	QFET®	QFET®
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Drain to Source Voltage (Vdss)	900 V	100 V	500 V	200 V
Gate Charge (Qg) (Max) @ Vgs	40 nC @ 10 V	8.2 nC @ 10 V	17 nC @ 10 V	13 nC @ 10 V
Input Capacitance (Ciss) (Max) @ Vds	1550 pF @ 25 V	250 pF @ 25 V	610 pF @ 25 V	430 pF @ 25 V
Vgs(th) (Max) @ Id	5V @ 250µA	4V @ 250µA	5V @ 250µA	5V @ 250µA
FET Type	N-Channel	P-Channel	N-Channel	P-Channel
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Current - Continuous Drain (Id) @ 25°C	5.4A (Tc)	4.5A (Tc)	4.5A (Tc)	4.8A (Tc)
Power Dissipation (Max)	3.13W (Ta), 158W (Tc)	3.75W (Ta), 40W (Tc)	3.13W (Ta), 85W (Tc)	3.13W (Ta), 75W (Tc)

FQB5N90TM Datasheet PDF

Download FQB5N90TM pdf datasheets and onsemi documentation for FQB5N90TM - onsemi.

Datasheets

[FQB5N90.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

Mult Dev Box Chgs 1/Jul/2021.pdf

PCN Assembly/Origin

Assembly Change 09/May/2023.pdf

Customers Also Interested in

Recommended Products



FQB5N50CTF
Fairchild (onsemi)



FQB5N60C
AMI Semiconductor/onsemi



FQB5P10TM
onsemi
MOSFET P-CH 100V 4.5A D2PAK



FQB5N50TM
onsemi
MOSFET N-CH 500V 4.5A D2PAK



FQB5P20TM
onsemi
MOSFET P-CH 200V 4.8A D2PAK



FQB5N90TM MOS
Fairchild (onsemi)



FQB5P20TMX
Fairchild (onsemi)



FQB60N03L
Fairchild (onsemi)



FQB5N50CTM
onsemi
MOSFET N-CH 500V 5A D2PAK



FQB5N90
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FQB5P10
Fairchild (onsemi)



FQB5N60
Fairchild (onsemi)



FQB5P20TM MOS
Fairchild (onsemi)



FQB5P10TM
Fairchild Semiconductor
MOSFET P-CH 100V 4.5A D2PAK



FQB5N60CTM
onsemi
MOSFET N-CH 600V 4.5A D2PAK



FQB60N03LTM
Fairchild (onsemi)



FQB5N50CTM
Fairchild Semiconductor
POWER FIELD-EFFECT TRANSISTOR,
5



FQB5N60CTM
Fairchild Semiconductor
4.5A, 600V, 20HM, N CHANNEL , D2

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: +00852 9146 4856
- Email: info@allelco.com

Certifications & Memberships



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