



# FCH190N65F-F155

Manufacturer Part Number	<b>FCH190N65F-F155</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FCH190N65F-F155
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 650V 20.6A TO247
Package	TO-247-3
Data sheet	<a href="#">FCH190N65F_F155.pdf</a>
RoHs Status	ROHS3 Compliant

Get a Quote

FCH190N65F-F155 - onsemi.New Original in Stock. Download Linear Technology FCH190N65F-F155 datasheet/specifications on AllelcoElec.com.  
Request a quote for FCH190N65F-F155, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

FCH190N65F-F155 Tech Specifications  
FCH190N65F-F155 - 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 @ 2mA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	3225 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	78 nC @ 10 V
Supplier Device Package	TO-247-3	FET Type	N-Channel
Series	FRFET®, SuperFET® II	FET Feature	-
Rds On (Max) @ Id, Vgs	190mOhm @ 10A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	208W (Tc)	Drain to Source Voltage (Vdss)	650 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	20.6A (Tc)
Package	Tube	Base Product Number	FCH190

## Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FCH190N65F-F155

Product Attribute	NO PICTURE			
Part Number	FCH190N65F-F155	FCH150N65F-F155	FCH165N65S3R0-F155	FCH170N60
Manufacturer	onsemi	Fairchild Semiconductor	onsemi	Fairchild Semiconductor
Input Capacitance (Ciss) (Max) @ Vds	3225 pF @ 100 V	3737 pF @ 100 V	1500 pF @ 400 V	2860 pF @ 380 V
Drain to Source Voltage (Vdss)	650 V	650 V	650 V	600 V
Current - Continuous Drain (Id) @ 25°C	20.6A (Tc)	24A (Tc)	19A (Tc)	22A (Tc)
Vgs(th) (Max) @ Id	5V @ 2mA	5V @ 2.4mA	4.5V @ 1.9mA	3.5V @ 250µA
Rds On (Max) @ Id, Vgs	190mOhm @ 10A, 10V	150mOhm @ 12A, 10V	165mOhm @ 9.5A, 10V	170mOhm @ 11A, 10V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Series	FRFET®, SuperFET® II	SuperFET® II	SuperFET® III	SuperFET® II
Base Product Number	FCH190	FCH150	FCH165	-
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Vgs (Max)	±20V	±20V	±30V	±20V
Supplier Device Package	TO-247-3	TO-247 Long Leads	TO-247-3	TO-247
Power Dissipation (Max)	208W (Tc)	298W (Tc)	154W (Tc)	227W (Tc)
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Gate Charge (Qg) (Max) @ Vgs	78 nC @ 10 V	94 nC @ 10 V	39 nC @ 10 V	55 nC @ 10 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
FET Feature	-	-	-	-
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Bulk	Tube	Bulk

## FCH190N65F-F155 Datasheet PDF

Download FCH190N65F-F155 pdf datasheets and onsemi documentation for FCH190N65F-F155 - onsemi.

### Datasheets

FCH190N65F\_F155.pdf

### Environmental Information

onsemi REACH.pdf

onsemi RoHS.pdf

### PCN Design/Specification

Logo 17/Aug/2017.pdf

Dimension/Color Change 24/Feb/2021.pdf

### PCN Packaging

Mult Devices 24/Oct/2017.pdf

Packing quantity increase 28/Dec/2020.pdf

### PCN Part Number



















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

### PCN Assembly/Origin

Mold Compound Change 17/Dec/2021.pdf

## Customers Also Interested in

### Recommended Products

 <b>FCH190N65FF155</b> Fairchild (onsemi)	 <b>FCH165N65S3R0-155</b> AMI Semiconductor/onsemi	 NO PICTURE <b>FCH20A12</b> SHIN	 <b>FCH150N65F_F155</b> AMI Semiconductor/onsemi	 <b>FCH150N65F-F155</b> Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, N	 NO PICTURE <b>FCH20A04</b> NIEC
 NO PICTURE <b>FCH20A10</b> NIEC	 <b>FCH165N65S3R0-F155</b> onsemi MOSFET N-CH 650V 19A TO247-3	 <b>FCH190N65F</b> AMI Semiconductor/onsemi	 <b>FCH170N60</b> Fairchild Semiconductor MOSFET N-CH 600V 22A TO247-3	 <b>FCH165N60E</b> onsemi MOSFET N-CH 600V 23A TO247-3	 <b>FCH170N60</b> onsemi MOSFET N-CH 600V 22A TO247-3
 <b>FCH150N65F-F155</b> onsemi MOSFET N-CH 650V 24A TO247	 NO PICTURE <b>FCH16P10Q</b> NIEC	 NO PICTURE <b>FCH20A06</b> NIEC	 <b>FCH20A15</b> KYOCERA AVX DIODE SCHOT 150V 20A TO220 F	 NO PICTURE <b>FCH2012F-1RON</b> TAI-TECH	 <b>FCH20A20</b> KYOCERA AVX DIODE SCHOT 200V 20A TO220 F

## 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 Alleco 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@alleco.com

### Certifications & Memberships



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