



Image may be representation.
See specifications for product details.



FCPF165N65S3L1

Manufacturer Part Number	FCPF165N65S3L1
Manufacturer	onsemi
Allelco Part Number	32D-FCPF165N65S3L1
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 650V 19A TO220F-3
Package	TO-220-3 Full Pack
Data sheet	FCPF165N65S3L1.pdf

Get a Quote

FCPF165N65S3L1 - onsemi.New Original in Stock. Download Linear Technology FCPF165N65S3L1 datasheet/specifications on AllelcoElec.com.
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Specifications

FCPF165N65S3L1 Tech Specifications

FCPF165N65S3L1 - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 150°C
Vgs(th) (Max) @ Id	4.5V @ 1.9mA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1415 pF @ 400 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	35 nC @ 10 V
Supplier Device Package	TO-220F-3	FET Type	N-Channel
Series	SuperFET® III	FET Feature	-
Rds On (Max) @ Id, Vgs	165mOhm @ 9.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	35W (Tc)	Drain to Source Voltage (Vdss)	650 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	19A (Tc)
Package	Tube	Base Product Number	FCPF165

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FCPF165N65S3L1

Product Attribute				
Part Number	FCPF165N65S3L1	FCPF150N65F	FCPF190N60E	FCPF16N60NT
Manufacturer	onsemi	onsemi	onsemi	Fairchild Semiconductor
Input Capacitance (Ciss) (Max) @ Vds	1415 pF @ 400 V	3737 pF @ 100 V	3175 pF @ 25 V	2170 pF @ 100 V
Package	Tube	Tube	Tube	Bulk
Series	SuperFET® III	-	SuperFET® II	SupreMOS™
Vgs(th) (Max) @ Id	4.5V @ 1.9mA	5V @ 2.4mA	3.5V @ 250µA	4V @ 250µA
FET Feature	-	-	-	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
Power Dissipation (Max)	35W (Tc)	39W (Tc)	39W (Tc)	35.7W (Tc)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Supplier Device Package	TO-220F-3	TO-220F-3	TO-220F-3	TO-220F-3
Current - Continuous Drain (Id) @ 25°C	19A (Tc)	14.9A (Tc)	20.6A (Tc)	16A (Tc)
Drain to Source Voltage (Vdss)	650 V	650 V	600 V	600 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Rds On (Max) @ Id, Vgs	165mOhm @ 9.5A, 10V	150mOhm @ 12A, 10V	190mOhm @ 10A, 10V	199mOhm @ 8A, 10V
Base Product Number	FCPF165	FCPF150	FCPF190	-
Vgs (Max)	±30V	±20V	±20V	±30V
Gate Charge (Qg) (Max) @ Vgs	35 nC @ 10 V	94 nC @ 10 V	82 nC @ 10 V	52.3 nC @ 10 V
Operating Temperature	-55°C ~ 150°C	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole

FCPF165N65S3L1 Datasheet PDF

Download FCPF165N65S3L1 pdf datasheets and onsemi documentation for FCPF165N65S3L1 - onsemi.

Datasheets

[FCPF165N65S3L1.pdf](#)

Environmental Information

[onsemi RoHS.pdf](#)

PCN Design/Specification

PCN Packaging

Mult Devices 24/Oct/2017.pdf

PCN Obsolescence/ EOL

Mult Dev EOL 29/Jan/2021.pdf

PCN Assembly/Origin

Mold Compound Change 21/Jul/2021.pdf

Customers Also Interested in

Recommended Products

FCPF13N60 FCS	FCPF16N60 MOS Fairchild (onsemi)	FCPF1300N80 AMI Semiconductor/onsemi	FCPF150N65F onsemi MOSFET N-CH 650V 14.9A TO220F	FCPF190N60E onsemi MOSFET N-CH 600V 20.6A TO220F	FCPF16N60NT Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1
FCPF16N60NT onsemi MOSFET N-CH 600V 16A TO220F	FCPF190N65FL1 onsemi MOSFET N-CH 650V 20.6A TO220F	FCPF11N65 onsemi MOSFET N-CH 650V 11A TO220F	FCPF1300N80Z onsemi MOSFET N-CH 800V 4A TO220F	FCPF165N65S3 AMI Semiconductor/onsemi	FCPF125N65S3 onsemi MOSFET N-CH 650V 24A TO220F
FCPF13N60NT Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	FCPF13N60NT onsemi MOSFET N-CH 600V 13A TO220F	FCPF165N65S3R0L Fairchild Semiconductor FCPF165N65S3R0L - POWER MOSFET,	FCPF16N60 onsemi MOSFET N-CH 600V 16A TO220F	FCPF190N60 onsemi MOSFET N-CH 600V 20.2A TO220F	FCPF165N65S3R0L onsemi MOSFET N-CH 650V 19A TO220F-3

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
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Contact us if you have any questions.

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Certifications & Memberships



View More

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