



Image may be representation.
See specifications for product details.



FCPF850N80Z

Manufacturer Part Number	FCPF850N80Z
Manufacturer	onsemi
Allelco Part Number	32D-FCPF850N80Z
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 800V 6A TO220F
Package	TO-220-3 Full Pack
Data sheet	FCPF850N80Z.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

FCPF850N80Z - onsemi.New Original in Stock. Download Linear Technology FCPF850N80Z datasheet/specifications on AllelcoElec.com.
Request a quote for FCPF850N80Z, please send us email: info@allelco.com

Specifications

FCPF850N80Z Tech Specifications
FCPF850N80Z - 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	4.5V @ 600µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	1315 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	29 nC @ 10 V
Supplier Device Package	TO-220F-3	FET Type	N-Channel
Series	SuperFET® II	FET Feature	-
Rds On (Max) @ Id, Vgs	850mOhm @ 3A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	28.4W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	6A (Tc)
Package	Tube	Base Product Number	FCPF850

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FCPF850N80Z

Product Attribute				
Part Number	FCPF850N80Z	FCPF650N80Z	FCPF600N60Z	FCPF600N65S3R0L
Manufacturer	onsemi	onsemi	onsemi	onsemi
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Series	SuperFET® II	SuperFET® II	SuperFET® II	SuperFET® III
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Input Capacitance (Ciss) (Max) @ Vds	1315 pF @ 100 V	1565 pF @ 100 V	1120 pF @ 25 V	465 pF @ 400 V
Base Product Number	FCPF850	FCPF650	FCPF600	FCPF600
Drain to Source Voltage (Vdss)	800 V	800 V	600 V	650 V
Vgs (Max)	±20V	±20V	±20V	±30V
FET Feature	-	-	-	-
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Current - Continuous Drain (Id) @ 25°C	6A (Tc)	8A (Tc)	7.4A (Tc)	6A (Tc)
Gate Charge (Qg) (Max) @ Vgs	29 nC @ 10 V	35 nC @ 10 V	26 nC @ 10 V	11 nC @ 10 V
Vgs(th) (Max) @ Id	4.5V @ 600µA	4.5V @ 800µA	3.5V @ 250µA	4.5V @ 600µA
Rds On (Max) @ Id, Vgs	850mOhm @ 3A, 10V	650mOhm @ 4A, 10V	600mOhm @ 3.7A, 10V	600mOhm @ 3A, 10V
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
Package	Tube	Tube	Tube	Tube
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Power Dissipation (Max)	28.4W (Tc)	30.5W (Tc)	89W (Tc)	24W (Tc)
Supplier Device Package	TO-220F-3	TO-220F-3	TO-220F-3	TO-220F-3

FCPF850N80Z Datasheet PDF

Download FCPF850N80Z pdf datasheets and onsemi documentation for FCPF850N80Z - onsemi.

Datasheets

[FCPF850N80Z.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

PCN Design/Specification

PCN Packaging



















Mult Devices 24/Oct/2017.pdf

PCN Assembly/Origin

Assembly/Test Site 14/Dec/2022.pdf

Customers Also Interested in

Recommended Products

					
FCPF650N80Z onsemi MOSFET N-CH 800V 8A TO220F	FCPF600N60Z onsemi MOSFET N-CH 600V 7.4A TO220F	FCPF600N65S3R0L onsemi MOSFET N-CH 650V 6A TO220F-3	FCPF4300N80Z Fairchild Semiconductor MOSFET N-CH 800V 1.6A TO220F	FCPF7N60YDTU onsemi MOSFET N-CH 600V 7A TO220F-3	FCPF600N65S3R0 Fairchild (onsemi)
					
FCPF850N80Z Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, N	FCPF7N60 onsemi MOSFET N-CH 600V 7A TO220F	FCPF4300N80Z onsemi MOSFET N-CH 800V 1.6A TO220F	FCPF650N80Z Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, N	FCPF7N60 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 7	FCPF400N80Z onsemi MOSFET N-CH 800V 11A TO220F
					
FCPF400N80ZL1 onsemi MOSFET N-CH 800V 11A TO220F	FCPF600N60Z Fairchild Semiconductor MOSFET N-CH 600V 7.4A TO220F	FCPF7N60 MOS Fairchild (onsemi)	FCPF9N60NT Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 9	FCPF9N60NT onsemi MOSFET N-CH 600V 9A TO220F	FCPF7N60YDTU Fairchild Semiconductor MOSFET N-CH 600V 7A 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.

 Phone +00852 9146 4856	 Email info@allelco.com
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Certifications & Memberships



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