



Image may be representation.
See specifications for product details.



STP80NF12

Manufacturer Part Number	STP80NF12
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP80NF12
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 120V 80A TO220AB
Package	TO-220-3
Data sheet	STP80NF12.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP80NF12 - STMicroelectronics.New Original in Stock. Download Linear Technology STP80NF12 datasheet/specifications on AllelcoElec.com.
Request a quote for STP80NF12, please send us email: info@allelco.com

Specifications

STP80NF12 Tech Specifications
STP80NF12 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	2V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	4300 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	189 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	STripFET™ II	FET Feature	-
Rds On (Max) @ Id, Vgs	18mOhm @ 40A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	300W (Tc)	Drain to Source Voltage (Vdss)	120 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	80A (Tc)
Package	Tube	Base Product Number	STP80

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP80NF12

Product Attribute				
Part Number	STP80NF12	STP80NF10FP	STP80NF55-08	STP80NF55-06FP
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Current - Continuous Drain (Id) @ 25°C	80A (Tc)	38A (Tc)	80A (Tc)	60A (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Feature	-	-	-	-
Supplier Device Package	TO-220	TO-220FP	TO-220	TO-220FP
Power Dissipation (Max)	300W (Tc)	45W (Tc)	300W (Tc)	45W (Tc)
Gate Charge (Qg) (Max) @ Vgs	189 nC @ 10 V	189 nC @ 10 V	155 nC @ 10 V	189 nC @ 10 V
Base Product Number	STP80	STP80	STP80	STP80N
Package	Tube	Tube	Tube	Tube
Drain to Source Voltage (Vdss)	120 V	100 V	55 V	55 V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Series	STripFET™ II	STripFET™ II	STripFET™	STripFET™ II
Input Capacitance (Ciss) (Max) @ Vds	4300 pF @ 25 V	4300 pF @ 25 V	3850 pF @ 25 V	4400 pF @ 25 V
Vgs(th) (Max) @ Id	2V @ 250µA	4V @ 250µA	4V @ 250µA	4V @ 250µA
Package / Case	TO-220-3	TO-220-3 Full Pack	TO-220-3	TO-220-3 Full Pack
Rds On (Max) @ Id, Vgs	18mOhm @ 40A, 10V	15mOhm @ 40A, 10V	8mOhm @ 40A, 10V	6.5mOhm @ 40A, 10V
Vgs (Max)	±20V	±20V	±20V	±20V

STP80NF12 Datasheet PDF

Download STP80NF12 pdf datasheets and STMicroelectronics documentation for STP80NF12 - STMicroelectronics.

Datasheets

STP80NF12.pdf

PCN Design/Specification

Mult Dev Adv Material Notice 8/Apr/2019.pdf

PCN Assembly/Origin



Customers Also Interested in

Recommended Products



STP80NF55-06 MOS
STMicroelectronics



STP80NF10F7 MOS
STMicroelectronics



STP80NF03L04
STMicroelectronics



STP80NF10FP
STMicroelectronics
MOSFET N-CH 100V 38A TO220FP



STP80NF55-08
STMicroelectronics
MOSFET N-CH 55V 80A TO220AB



STP80NF55-06FP
STMicroelectronics
MOSFET N-CH 55V 60A TO220FP



STP80NF10
STMicroelectronics
MOSFET N-CH 100V 80A TO220AB



STP80NF55L-06
STMicroelectronics
MOSFET N-CH 55V 80A TO220AB



STP80NF03L-04Z2
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STP80NF12 P80NF12
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STP80NF55-06FP MOS
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STP80NF03L-04
STMicroelectronics
MOSFET N-CH 30V 80A TO220AB



STP80NF03L
STMicroelectronics
MOSFET N-CH 30V 80A TO220AB



STP80NF55-06
STMicroelectronics
MOSFET N-CH 55V 80A TO220AB



STP80NF10 MOS
STMicroelectronics



STP80NF10F7
STMicroelectronics



STP80NF06
STMicroelectronics
MOSFET N-CH 60V 80A TO220AB



STP80NF55
STMicroelectronics
MOSFET N-CH 55V 80A TO220

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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