

Image may be representation.
See specifications for product details.



STP180N4F6

Manufacturer Part Number	STP180N4F6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP180N4F6
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CHANNEL 40V 120A TO220
Package	TO-220-3
Data sheet	STP180N4F6.pdf
RoHs Status	ROHS3 Compliant

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STP180N4F6 - STMicroelectronics. New Original in Stock. Download Linear Technology STP180N4F6 datasheet/specifications on AllelcoElec.com.
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Specifications

STP180N4F6 Tech Specifications

STP180N4F6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package	Tube
Vgs(th) (Max) @ Id	-	Operating Temperature	-
Vgs (Max)	±20V	Mounting Type	Through Hole
Technology	MOSFET (Metal Oxide)	FET Type	N-Channel
Supplier Device Package	TO-220	FET Feature	-
Series	STripFET™ F6	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Rds On (Max) @ Id, Vgs	-	Drain to Source Voltage (Vdss)	40 V
Power Dissipation (Max)	190W (Tc)	Current - Continuous Drain (Id) @ 25°C	120A (Tc)
Package / Case	TO-220-3	Base Product Number	STP180

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP180N4F6

Product Attribute				
Part Number	STP180N4F6	STP17NF25	STP17NK40Z	STP17N80K5
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Power Dissipation (Max)	190W (Tc)	90W (Tc)	150W (Tc)	170W (Tc)
Drain to Source Voltage (Vdss)	40 V	250 V	400 V	800 V
Series	STripFET™ F6	STripFET™ II	SuperMESH™	MDmesh™ K5
Package	Tube	Tube	Tube	Tube
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Rds On (Max) @ Id, Vgs	-	165mOhm @ 8.5A, 10V	250mOhm @ 7.5A, 10V	340mOhm @ 7A, 10V
FET Feature	-	-	-	-
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Operating Temperature	-	-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
Current - Continuous Drain (Id) @ 25°C	120A (Tc)	17A (Tc)	15A (Tc)	14A (Tc)
Vgs (Max)	±20V	±20V	±30V	±30V
Vgs(th) (Max) @ Id	-	4V @ 250µA	4.5V @ 100µA	5V @ 250µA
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
Base Product Number	STP180	STP17	STP17N	STP17
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	10V	10V	10V

STP180N4F6 Datasheet PDF

Download STP180N4F6 pdf datasheets and STMicroelectronics documentation for STP180N4F6 - STMicroelectronics.

Datasheets

[STP180N4F6.pdf](#)

PCN Design/Specification



















[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

PCN Assembly/Origin

[Mult Dev Plating Process 13/Dec/2018.pdf](#)

Customers Also Interested in

Recommended Products

					
STP17NF25 STMicroelectronics MOSFET N-CH 250V 17A TO220AB	STP17NK40Z STMicroelectronics MOSFET N-CH 400V 15A TO220AB	STP17N80K5 STMicroelectronics MOSFET N-CHANNEL 800V 14A TO220	STP17NF25 MOS STMicroelectronics	STP180N55F3 STMicroelectronics MOSFET N-CH 55V 120A TO220AB	STP180NS04ZC STMicroelectronics MOSFET N-CH 33V 120A TO220AB
					
STP185N55F3 STMicroelectronics MOSFET N-CH 55V 120A TO220AB	STP18N60M6 STMicroelectronics MOSFET N-CH 600V 13A TO220	STP180N10F3 STMicroelectronics MOSFET N-CH 100V 120A TO220	STP18N60DM2 STMicroelectronics MOSFET N-CH 600V 12A TO220	STP1806 STMicroelectronics	STP18N60M2 STMicroelectronics MOSFET N-CH 600V 13A TO220
					
STP17N25 STMicroelectronics	STP18N55M5 STMicroelectronics MOSFET N-CH 550V 16A TO220AB	STP18N65M2 STMicroelectronics MOSFET N-CH 650V 12A TO220	STP180NS04ZC-S MOS STMicroelectronics	STP175F PROTECTRONICS	STP17NK40ZFP STMicroelectronics MOSFET N-CH 400V 15A TO220FP

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.



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-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

Contact us if you have any questions.

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