

Image may be representation.
See specifications for product details.



STP100N10F7

Manufacturer Part Number	STP100N10F7
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP100N10F7
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N CH 100V 80A TO-220
Package	TO-220-3
Data sheet	STx100N10F7 DataSheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP100N10F7 - STMicroelectronics.New Original in Stock. Download Linear Technology STP100N10F7 datasheet/specifications on AllelcoElec.com.
Request a quote for STP100N10F7, please send us email: info@allelco.com

Specifications

STP100N10F7 Tech Specifications
STP100N10F7 - 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	4.5V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	4369 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	61 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	DeepGATE™, STripFET™ VII	FET Feature	-
Rds On (Max) @ Id, Vgs	8mOhm @ 40A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	150W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	80A (Tc)
Package	Tube	Base Product Number	STP100

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP100N10F7

Product Attribute				
Part Number	STP100N10F7	STP100NF04	STP100N8F6	STP105N3LL
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Vgs(th) (Max) @ Id	4.5V @ 250µA	4V @ 250µA	4V @ 250µA	2.5V @ 250µA
FET Feature	-	-	-	-
Gate Charge (Qg) (Max) @ Vgs	61 nC @ 10 V	150 nC @ 10 V	100 nC @ 10 V	42 nC @ 4.5 V
Drain to Source Voltage (Vdss)	100 V	40 V	80 V	30 V
Vgs (Max)	±20V	±20V	±20V	±20V
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	4.5V, 10V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	175°C (TJ)
Base Product Number	STP100	STP100	STP100	STP105
Current - Continuous Drain (Id) @ 25°C	80A (Tc)	120A (Tc)	100A (Tc)	80A (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Series	DeepGATE™, STripFET™ VII	Automotive, AEC-Q101, STripFET™ II	STripFET™ F6	DeepGATE™, STripFET™ VI
Package	Tube	Tube	Tube	Tube
Power Dissipation (Max)	150W (Tc)	300W (Tc)	176W (Tc)	140W (Tc)
Rds On (Max) @ Id, Vgs	8mOhm @ 40A, 10V	4.6mOhm @ 50A, 10V	9mOhm @ 50A, 10V	3.5mOhm @ 40A, 10V
Input Capacitance (Ciss) (Max) @ Vds	4369 pF @ 50 V	5100 pF @ 25 V	5955 pF @ 25 V	3100 pF @ 25 V
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3

STP100N10F7 Datasheet PDF

Download STP100N10F7 pdf datasheets and STMicroelectronics documentation for STP100N10F7 - STMicroelectronics.

Datasheets

STx100N10F7 DataSheet.pdf



















PCN Design/Specification

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

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 STP1013 STANSON	 STP08CP05TTR STMicroelectronics IC LED DRVR LINEAR 100MA 16TSSOP	 STP08DP05TTR STMicroelectronics IC LED DRVR LINEAR 100MA 16TSSOP	 STP100NF04L STMicroelectronics	 STP08DP05MTR STMicroelectronics IC LED DRIVER LINEAR 100MA 16SO	 STP100N10F5R STMicroelectronics
 STP100NF04 STMicroelectronics MOSFET N-CH 40V 120A TO220AB	 STP100NF04 MOS STMicroelectronics	 STP08CP05XTTR STMicroelectronics IC LED DRVR LIN 100MA 16HTSSOP	 STP08CP05B1 STMicroelectronics IC LED DRIVER LINEAR 100MA 16DIP	 STP08DP05XTTR STMicroelectronics IC LED DRVR LIN 100MA 16HTSSOP	 STP100N8F6 STMicroelectronics MOSFET N-CH 80V 100A TO220
 STP100NF03L-03 STMicroelectronics	 STP08CL596TTR STMicroelectronics IC LED DRVR LINEAR 90MA 16TSSOP	 STP08CDC596TTR STMicroelectronics IC LED DRVR LINEAR 120MA 16TSSOP	 STP08CP05MTR STMicroelectronics IC LED DRIVER LINEAR 100MA 16SO	 STP105N3LL STMicroelectronics MOSFET N-CH 30V 80A TO220	 STP100N6F7 STMicroelectronics MOSFET N-CH 60V 100A 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

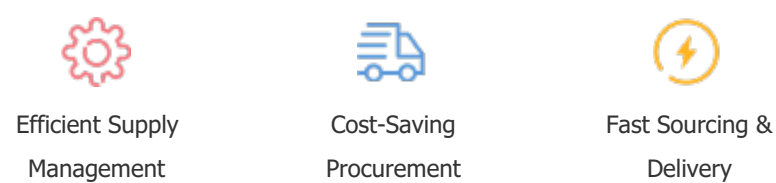
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

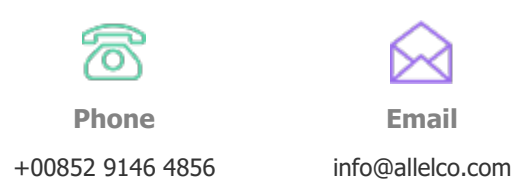
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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