

Image may be representation.
See specifications for product details.



STP165N10F4

Manufacturer Part Number	STP165N10F4
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP165N10F4
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 100V 120A TO220AB
Package	TO-220-3
Data sheet	STP165N10F4.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP165N10F4 - STMicroelectronics.New Original in Stock. Download Linear Technology STP165N10F4 datasheet/specifications on AllelcoElec.com.
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Specifications

STP165N10F4 Tech Specifications
STP165N10F4 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	10500 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	180 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	DeepGATE™, STripFET™	FET Feature	-
Rds On (Max) @ Id, Vgs	5.5mOhm @ 60A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	315W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	120A (Tc)
Package	Tube	Base Product Number	STP165

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP165N10F4

Product Attribute				
Part Number	STP165N10F4	STP160N3LL	STP15NK50ZFP	STP15NM60ND
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Drive Voltage (Max Rds On, Min Rds On)	10V	4.5V, 10V	10V	10V
Gate Charge (Qg) (Max) @ Vgs	180 nC @ 10 V	42 nC @ 4.5 V	106 nC @ 10 V	40 nC @ 10 V
Rds On (Max) @ Id, Vgs	5.5mOhm @ 60A, 10V	3.2mOhm @ 60A, 10V	340mOhm @ 7A, 10V	299mOhm @ 7A, 10V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-50°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Package / Case	TO-220-3	TO-220-3	TO-220-3 Full Pack	TO-220-3
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Vgs (Max)	±20V	±20V	±30V	±25V
Base Product Number	STP165	STP160	STP15N	STP15N
Current - Continuous Drain (Id) @ 25°C	120A (Tc)	120A (Tc)	14A (Tc)	14A (Tc)
Power Dissipation (Max)	315W (Tc)	136W (Tc)	40W (Tc)	125W (Tc)
Vgs(th) (Max) @ Id	4V @ 250µA	2.5V @ 250µA	4.5V @ 100µA	5V @ 250µA
FET Feature	-	-	-	-
Input Capacitance (Ciss) (Max) @ Vds	10500 pF @ 25 V	3500 pF @ 25 V	2260 pF @ 25 V	1250 pF @ 50 V
Supplier Device Package	TO-220	TO-220	TO-220FP	TO-220
Drain to Source Voltage (Vdss)	100 V	30 V	500 V	600 V
Package	Tube	Tube	Tube	Tube
Series	DeepGATE™, STripFET™	STripFET™ H6	SuperMESH™	FDmesh™ II

STP165N10F4 Datasheet PDF

Download STP165N10F4 pdf datasheets and STMicroelectronics documentation for STP165N10F4 - STMicroelectronics.

PCN Design/Specification

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




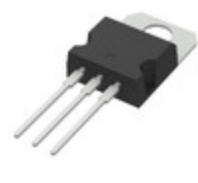








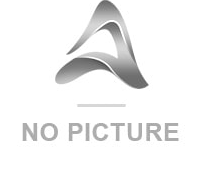





PCN Packaging

Traceability 06/Mar/2017.pdf

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 STP16C596TTR STMicroelectronics IC LED DRVR LINEAR 120MA 24TSSOP	 STP160N3LL STMicroelectronics MOSFET N-CH 30V 120A TO220	 STP15NK50ZFP STMicroelectronics MOSFET N-CH 500V 14A TO220FP	 STP15NM60ND STMicroelectronics MOSFET N-CH 600V 14A TO220AB	 STP160N75F3 STMicroelectronics MOSFET N-CH 75V 120A TO220AB	 STP16C596B1R STMicroelectronics IC LED DRIVER LINEAR 120MA 24DIP
 STP15NM60N STMicroelectronics MOSFET N-CH 600V 14A TO220AB	 STP16CL596MTR STMicroelectronics IC LED DRIVER LINEAR 90MA 24SO	 STP15NM65N STMicroelectronics MOSFET N-CH 650V 12A TO220	 STP16C596MTR STMicroelectronics IC LED DRIVER LINEAR 120MA 24SO	 STP160N4LF6 STMicroelectronics MOSFET N-CH 40V 120A TO220	 STP16C596M STMicroelectronics IC LED DRIVER LINEAR 120MA 24SO
 STP16A60 SEMIWELL	 STP160N75F3 MOS STMicroelectronics	 STP160N4LF6 MOS STMicroelectronics	 STP1612PW05MTR STMicroelectronics IC LED DRVR LINEAR PWM 60MA 24SO	 STP16C596XTTR STMicroelectronics IC LED DRVR LINEAR 120MA 24TSSOP	 STP16C596 STMicroelectronics

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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Contact us if you have any questions.

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