



Image may be representation.
See specifications for product details.



STP18N65M2

Manufacturer Part Number	STP18N65M2
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP18N65M2
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 650V 12A TO220
Package	TO-220-3
Data sheet	ST(I,P)18N65M2.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP18N65M2 - STMicroelectronics. New Original in Stock. Download Linear Technology STP18N65M2 datasheet/specifications on AllelcoElec.com.
Request a quote for STP18N65M2, please send us email: info@allelco.com

Specifications

STP18N65M2 Tech Specifications

STP18N65M2 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	150°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±25V	Input Capacitance (Ciss) (Max) @ Vds	770 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	20 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	MDmesh™ M2	FET Feature	-
Rds On (Max) @ Id, Vgs	330mOhm @ 6A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	110W (Tc)	Drain to Source Voltage (Vdss)	650 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	12A (Tc)
Package	Tube	Base Product Number	STP18

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP18N65M2

Product Attribute				
Part Number	STP18N65M2	STP185N55F3	STP180NS04ZC	STP18N60M2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Feature	-	-	-	-
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	4V @ 1mA	4V @ 250µA
Current - Continuous Drain (Id) @ 25°C	12A (Tc)	120A (Tc)	120A (Tc)	13A (Tc)
Base Product Number	STP18	STP185	STP180	STP18
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Series	MDmesh™ M2	STripFET™	SAFeFET™	MDmesh™ II Plus
Power Dissipation (Max)	110W (Tc)	330W (Tc)	330W (Tc)	110W (Tc)
Rds On (Max) @ Id, Vgs	330mOhm @ 6A, 10V	3.8mOhm @ 60A, 10V	4.2mOhm @ 40A, 10V	280mOhm @ 6.5A, 10V
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Operating Temperature	150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)
Drain to Source Voltage (Vdss)	650 V	55 V	33 V	600 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Tube	Tube	Tube
Input Capacitance (Ciss) (Max) @ Vds	770 pF @ 100 V	6800 pF @ 25 V	4560 pF @ 25 V	791 pF @ 100 V
Gate Charge (Qg) (Max) @ Vgs	20 nC @ 10 V	100 nC @ 10 V	110 nC @ 10 V	21.5 nC @ 10 V
Vgs (Max)	±25V	±20V	±20V	±25V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel

STP18N65M2 Datasheet PDF

Download STP18N65M2 pdf datasheets and STMicroelectronics documentation for STP18N65M2 - STMicroelectronics.

Datasheets

[ST\(I,P\)18N65M2.pdf](#)

PCN Design/Specification

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

PCN Assembly/Origin



Customers Also Interested in

Recommended Products

**STP185N55F3**STMicroelectronics
MOSFET N-CH 55V 120A TO220AB**STP180NS04ZC**STMicroelectronics
MOSFET N-CH 33V 120A TO220AB**STP18N60M2**STMicroelectronics
MOSFET N-CH 600V 13A TO220**STP180N4F6**STMicroelectronics
MOSFET N-CHANNEL 40V 120A TO220**STP18NM60N**STMicroelectronics
MOSFET N-CH 600V 13A TO220AB**STP190N55LF3**STMicroelectronics
MOSFET N-CH 55V 120A TO220-3**STP18NM80**STMicroelectronics
MOSFET N-CH 800V 17A TO220AB**STP190NF04**

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**STP18NM60ND**STMicroelectronics
MOSFET N-CH 600V 13A TO220**STP180NS04ZC-S MOS**

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**STP19NB20**STMicroelectronics
MOSFET N-CH 200V 19A TO220AB**STP18N55M5**STMicroelectronics
MOSFET N-CH 550V 16A TO220AB**STP18N60M6**STMicroelectronics
MOSFET N-CH 600V 13A TO220**STP18N65M5**STMicroelectronics
MOSFET N-CH 650V 15A TO220**STP180NF55F3**

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**STP18N60DM2**STMicroelectronics
MOSFET N-CH 600V 12A TO220**STP19NF20**STMicroelectronics
MOSFET N-CH 200V 15A TO220AB**STP180N55F3**STMicroelectronics
MOSFET N-CH 55V 120A TO220AB

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 Alleco 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

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Email

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Certifications & Memberships



View More

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