

Image may be representation.  
See specifications for product details.



## STFU18N65M2

Manufacturer Part Number	<b>STFU18N65M2</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STFU18N65M2
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 650V 12A TO220FP
Package	TO-220-3 Full Pack
Data sheet	<b>STFU18N65M2.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STFU18N65M2 - STMicroelectronics.New Original in Stock. Download Linear Technology STFU18N65M2 datasheet/specifications on AllelcoElec.com.  
Request a quote for STFU18N65M2, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STFU18N65M2 Tech Specifications  
STFU18N65M2 - 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)	±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-220FP	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)	25W (Tc)	Drain to Source Voltage (Vdss)	650 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	12A (Tc)
Package	Tube	Base Product Number	STFU18

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STFU18N65M2

Product Attribute				
Part Number	STFU18N65M2	STFU15NM65N	STFU15N80K5	STFU28N65M2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Feature	-	-	-	-
Gate Charge (Qg) (Max) @ Vgs	20 nC @ 10 V	33.3 nC @ 10 V	32 nC @ 10 V	35 nC @ 10 V
Package	Tube	Tube	Tube	Tube
Vgs (Max)	±25V	±25V	±30V	±25V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Power Dissipation (Max)	25W (Tc)	30W (Tc)	35W (Tc)	30W (Tc)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
Rds On (Max) @ Id, Vgs	330mOhm @ 6A, 10V	380mOhm @ 6A, 10V	375mOhm @ 7A, 10V	180mOhm @ 10A, 10V
Series	MDmesh™ M2	MDmesh™ II	MDmesh™ K5	MDmesh™ M2
Base Product Number	STFU18	STFU15	STFU15	STFU28
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	5V @ 100µA	4V @ 250µA
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Current - Continuous Drain (Id) @ 25°C	12A (Tc)	12A (Tc)	14A (Tc)	20A (Tc)
Input Capacitance (Ciss) (Max) @ Vds	770 pF @ 100 V	983 pF @ 50 V	1100 pF @ 100 V	1440 pF @ 100 V
Supplier Device Package	TO-220FP	TO-220FP	TO-220FP	TO-220FP
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Drain to Source Voltage (Vdss)	650 V	650 V	800 V	650 V

### STFU18N65M2 Datasheet PDF

Download STFU18N65M2 pdf datasheets and STMicroelectronics documentation for STFU18N65M2 - STMicroelectronics.

#### Datasheets



















STFU18N65M2.pdf

#### PCN Assembly/Origin

Mult Dev Wafer Site Add 3/Aug/2018.pdf

## Customers Also Interested in

### Recommended Products

 <b>STFU15NM65N</b> STMicroelectronics MOSFET N-CH 650V 12A TO220FP	 <b>STFPC311BTR</b> STMicroelectronics IC DRVR CTRL FRONT PNL 52QFP	 <b>STFU15N80K5</b> STMicroelectronics MOSFET N-CH 800V 14A TO220FP	 <b>STFW3N150 MOS</b> STMicroelectronics	 <b>STFPC320BTR</b> STMicroelectronics IC CTRL/DVR FRONT PANEL 52QFP	 <b>STFPC320</b> STMicroelectronics
 <b>STFU28N65M2</b> STMicroelectronics MOSFET N-CH 650V 20A TO220FP	 <b>STFW12N120K5</b> STMicroelectronics MOSFET N-CH 1200V 12A ISOWATT	 <b>STFU9N60M2</b> STMicroelectronics	 <b>STFW38N65M5</b> STMicroelectronics MOSFET N-CH 650V 30A ISOWATT	 <b>STFM1000XXNARB2X</b> Freescale / NXP Semiconductors	 <b>STFW3N150</b> STMicroelectronics MOSFET N-CH 1500V 2.5A ISOWATT
 <b>STFW45N65M5</b> STMicroelectronics MOSFET N-CH 650V 35A ISOWATT	 <b>STFW24N60M2</b> STMicroelectronics MOSFET N-CH 600V 18A TO3PF	 <b>STFW3N170</b> STMicroelectronics MOSFET N-CH 1700V 2.6A ISOWATT	 <b>STFU18N60M2</b> STMicroelectronics MOSFET N-CH 600V TO-220FP	 <b>STFU13N65M2</b> STMicroelectronics MOSFET N-CH 650V 10A TO220FP	 <b>STFU15NM60N</b> 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

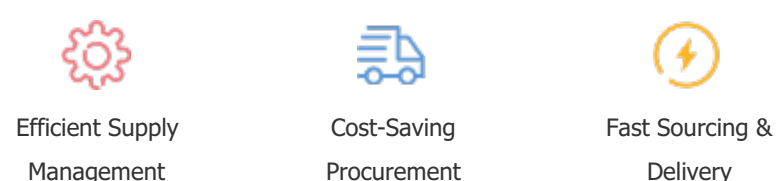
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

### Payment Support

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



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



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