



Image may be representation.
See specifications for product details.



STF38N65M5

Manufacturer Part Number	STF38N65M5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STF38N65M5
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 650V 30A TO220FP
Package	TO-220-3 Full Pack
Data sheet	STF(W)38N65M5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STF38N65M5 - STMicroelectronics.New Original in Stock. Download Linear Technology STF38N65M5 datasheet/specifications on AllelcoElec.com.
Request a quote for STF38N65M5, please send us email: info@allelco.com

Specifications

STF38N65M5 Tech Specifications

STF38N65M5 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	150°C (TJ)
Vgs(th) (Max) @ Id	5V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±25V	Input Capacitance (Ciss) (Max) @ Vds	3000 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	71 nC @ 10 V
Supplier Device Package	TO-220FP	FET Type	N-Channel
Series	MDmesh™ V	FET Feature	-
Rds On (Max) @ Id, Vgs	95mOhm @ 15A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	35W (Tc)	Drain to Source Voltage (Vdss)	650 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	30A (Tc)
Package	Tube	Base Product Number	STF38

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STF38N65M5

Product Attribute				
Part Number	STF38N65M5	STF3LN80K5	STF3HNK90Z	STF34NM60ND
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Vgs(th) (Max) @ Id	5V @ 250µA	5V @ 100µA	4.5V @ 50µA	5V @ 250µA
Supplier Device Package	TO-220FP	TO-220FP	TO-220FP	TO-220FP
Input Capacitance (Ciss) (Max) @ Vds	3000 pF @ 100 V	102 pF @ 100 V	690 pF @ 25 V	2785 pF @ 50 V
Package	Tube	Tube	Tube	Tube
Drain to Source Voltage (Vdss)	650 V	800 V	800 V	600 V
Vgs (Max)	±25V	±30V	±30V	±25V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Power Dissipation (Max)	35W (Tc)	20W (Tc)	25W (Tc)	40W (Tc)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
Current - Continuous Drain (Id) @ 25°C	30A (Tc)	2A (Tc)	3A (Tc)	29A (Tc)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Gate Charge (Qg) (Max) @ Vgs	71 nC @ 10 V	2.63 nC @ 10 V	35 nC @ 10 V	80.4 nC @ 10 V
Rds On (Max) @ Id, Vgs	95mOhm @ 15A, 10V	3.250hm @ 1A, 10V	4.20hm @ 1.5A, 10V	110mOhm @ 14.5A, 10V
Series	MDmesh™ V	MDmesh™ K5	SuperMESH™	FDmesh™ II
FET Feature	-	-	-	-
Base Product Number	STF38	STF3LN80	STF3HN	STF34
Operating Temperature	150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	150°C (TJ)

STF38N65M5 Datasheet PDF

Download STF38N65M5 pdf datasheets and STMicroelectronics documentation for STF38N65M5 - STMicroelectronics.

Datasheets



















[STF\(W\)38N65M5.pdf](#)

PCN Assembly/Origin

[Assembly Location Expansion 05/Mar/2014.pdf](#)

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Recommended Products

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STF34NM60N 34NM60N STMicroelectronics	STF3LN80K5 STMicroelectronics MOSFET N-CH 800V 2A TO220FP	STF3N62K3 MOS STMicroelectronics	STF3HNK90Z STMicroelectronics MOSFET N-CH 800V 3A TO220FP	STF34NM60ND STMicroelectronics MOSFET N-CH 600V 29A TO220FP	STF36N60M6 STMicroelectronics MOSFET N-CH 600V 30A TO220FP
					
STF35N60DM2 STMicroelectronics MOSFET N-CH 600V 28A TO220FP	STF35N65DM2 STMicroelectronics MOSFET N-CH 650V 32A TO220FP	STF3N62K3 STMicroelectronics MOSFET N-CH 620V 2.7A TO220FP	STF3LN62K3 STMicroelectronics MOSFET N-CH 620V 2.5A TO220FP	STF3N80K5 STMicroelectronics MOSFET N-CH 800V 2.5A TO220FP	STF33N60M6 STMicroelectronics MOSFET N-CH 600V 25A TO220FP
					
STF33N65M2 STMicroelectronics MOSFET N-CH 650V 24A TO220FP	STF3NK100Z STMicroelectronics MOSFET N-CH 1000V 2.5A TO220FP	STF34NM60N STMicroelectronics MOSFET N-CH 600V 31.5A TO220FP	STF3NK80Z STMicroelectronics MOSFET N-CH 800V 2.5A TO220FP	STF34N65M5 STMicroelectronics MOSFET N-CH 650V 28A TO220FP	STF33N60M2 STMicroelectronics MOSFET N-CH 600V 26A 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.



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
info@allelco.com

Certifications & Memberships



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Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong
Phone: +00852 9146 4856
Fax: +00852 3010 8510
Email: info@Allelco.com