

Image may be representation.
See specifications for product details.



STF16NF25

Manufacturer Part Number	STF16NF25
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STF16NF25
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 250V 14A TO220FP
Package	TO-220-3 Full Pack
Data sheet	STx16NF25.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STF16NF25 - STMicroelectronics.New Original in Stock. Download Linear Technology STF16NF25 datasheet/specifications on AllelcoElec.com.
Request a quote for STF16NF25, please send us email: info@allelco.com

Specifications

STF16NF25 Tech Specifications

STF16NF25 - 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	680 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	18 nC @ 10 V
Supplier Device Package	TO-220FP	FET Type	N-Channel
Series	STripFET™ II	FET Feature	-
Rds On (Max) @ Id, Vgs	235mOhm @ 6.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	25W (Tc)	Drain to Source Voltage (Vdss)	250 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	14A (Tc)
Package	Tube	Base Product Number	STF16

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STF16NF25

Product Attribute				
Part Number	STF16NF25	STF16N60M2	STF16N60M6	STF17NF25
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-55°C ~ 150°C (TJ)	150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Series	STripFET™ II	MDmesh™ M2	UltraFASTmesh™	STripFET™ II
Current - Continuous Drain (Id) @ 25°C	14A (Tc)	12A (Tc)	12A (Tc)	17A (Tc)
FET Feature	-	-	-	-
Drain to Source Voltage (Vdss)	250 V	600 V	600 V	250 V
Input Capacitance (Ciss) (Max) @ Vds	680 pF @ 25 V	700 pF @ 100 V	575 pF @ 100 V	1000 pF @ 25 V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Power Dissipation (Max)	25W (Tc)	25W (Tc)	25W (Tc)	25W (Tc)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Supplier Device Package	TO-220FP	TO-220FP	TO-220FP	TO-220FP
Package	Tube	Tube	Tube	Tube
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	4.75V @ 250µA	4V @ 250µA
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Rds On (Max) @ Id, Vgs	235mOhm @ 6.5A, 10V	320mOhm @ 6A, 10V	320mOhm @ 6A, 10V	165mOhm @ 8.5A, 10V
Base Product Number	STF16	STF16	STF16	STF17
Gate Charge (Qg) (Max) @ Vgs	18 nC @ 10 V	19 nC @ 10 V	16.7 nC @ 10 V	29.5 nC @ 10 V
Vgs (Max)	±20V	±25V	±25V	±20V
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack

STF16NF25 Datasheet PDF

Download STF16NF25 pdf datasheets and STMicroelectronics documentation for STF16NF25 - STMicroelectronics.

Datasheets

[STx16NF25.pdf](#)

PCN Packaging



















[Box Label Chg 28/Jul/2016.pdf](#)

PCN Assembly/Origin



Customers Also Interested in

Recommended Products

					
STF16N60M2 STMicroelectronics MOSFET N-CH 600V 12A TO220FP	STF16N60M6 STMicroelectronics MOSFET N-CH 600V TO220-3 FP	STF17NF25 STMicroelectronics MOSFET N-CH 250V 17A TO220FP	STF16N65M2 STMicroelectronics MOSFET N-CH 650V 11A TO220FP	STF16N50M2 STMicroelectronics MOSFET N-CH 500V 13A TO220	STF16N65M5 MOS STMicroelectronics
					
STF16NM50N STMicroelectronics MOSFET N-CH 500V 15A TO220FP	STF16N65M2 MOS STMicroelectronics	STF16A60 SEMIWELL	STF16N60M2/16N60M2 STMicroelectronics	STF15NM65N MOS STMicroelectronics	STF16N65M5 STMicroelectronics MOSFET N-CH 650V 12A TO220FP
					
STF16NK60Z STMicroelectronics MOSFET N-CH 600V 14A TO220FP	STF18N60DM2 STMicroelectronics MOSFET N-CH 600V 13A TO220FP	STF18N60M2 STMicroelectronics MOSFET N-CH 600V 13A TO220FP	STF17N80K5 STMicroelectronics MOSFET N-CH 800V 14A TO220FP	STF18N55M5 STMicroelectronics MOSFET N-CH 550V 16A TO220FP	STF17NF25 MOS 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 -

 Efficient Supply Management	 Cost-Saving Procurement	 Fast Sourcing & Delivery
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Contact us if you have any questions.

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Certifications & Memberships



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Contact us

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