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See specifications for product details.



STF25NM50N

Manufacturer Part Number	STF25NM50N
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STF25NM50N
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 500V 22A TO220FP
Package	TO-220-3 Full Pack
Data sheet	STx25NM50N.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STF25NM50N - STMicroelectronics.New Original in Stock. Download Linear Technology STF25NM50N datasheet/specifications on AllelcoElec.com.
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Specifications

STF25NM50N Tech Specifications

STF25NM50N - 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	2565 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	84 nC @ 10 V
Supplier Device Package	TO-220FP	FET Type	N-Channel
Series	MDmesh™ II	FET Feature	-
Rds On (Max) @ Id, Vgs	140mOhm @ 11A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	40W (Tc)	Drain to Source Voltage (Vdss)	500 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	22A (Tc)
Package	Tube	Base Product Number	STF25

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STF25NM50N

Product Attribute				
Part Number	STF25NM50N	STF25N80K5	STF260N4F7	STF26N65DM2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Feature	-	-	-	-
Vgs(th) (Max) @ Id	4V @ 250µA	5V @ 100µA	4V @ 250µA	5V @ 250µA
Gate Charge (Qg) (Max) @ Vgs	84 nC @ 10 V	40 nC @ 10 V	67 nC @ 10 V	35.5 nC @ 10 V
Rds On (Max) @ Id, Vgs	140mOhm @ 11A, 10V	260mOhm @ 19.5A, 10V	2.5mOhm @ 60A, 10V	190mOhm @ 10A, 10V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)
Power Dissipation (Max)	40W (Tc)	40W (Tc)	35W (Tc)	30W (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Vgs (Max)	±25V	±30V	±20V	±25V
Package	Tube	Tube	Tape & Reel (TR)	Tube
Current - Continuous Drain (Id) @ 25°C	22A (Tc)	19.5A (Tc)	90A (Tc)	20A (Tc)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
Series	MDmesh™ II	SuperMESH5™	STripFET™ F7	MDmesh™ DM2
Base Product Number	STF25	STF25	STF260	STF26
Drain to Source Voltage (Vdss)	500 V	800 V	40 V	650 V
Supplier Device Package	TO-220FP	TO-220FP	TO-220FP	TO-220FP
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Input Capacitance (Ciss) (Max) @ Vds	2565 pF @ 25 V	1600 pF @ 100 V	5640 pF @ 25 V	1480 pF @ 100 V

STF25NM50N Datasheet PDF

Download STF25NM50N pdf datasheets and STMicroelectronics documentation for STF25NM50N - STMicroelectronics.

Datasheets

[STx25NM50N.pdf](#)

Customers Also Interested in

Recommended Products

**STF25N80K5**STMicroelectronics
MOSFET N-CH 800V 19.5A TO220FP**STF260N4F7**STMicroelectronics
MOSFET N-CH 40V 90A TO220FP**STF26N65DM2**STMicroelectronics
MOSFET N-CH 650V 20A TO220FP**STF24NM60N**STMicroelectronics
MOSFET N-CH 600V 17A TO220FP**STF26NM60N MOS**

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**STF24NF10**

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**STF26N60M2**STMicroelectronics
MOSFET N-CH 600V 20A TO220FP**STF25N10F7**STMicroelectronics
MOSFET N-CH 100V 19A TO220FP**STF24N65M2**STMicroelectronics
MOSFET N-CH 650V 16A TO220FP**STF26NM60N-H**STMicroelectronics
MOSFET N-CH 600V 20A TO220FP**STF26NM60N**STMicroelectronics
MOSFET N-CH 600V 20A TO220FP**STF25N60M2-EP**STMicroelectronics
MOSFET N-CH 600V 18A TO220FP**STF25N80K5 MOS**

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**STF24NM65N**STMicroelectronics
MOSFET N-CH 650V 19A TO220FP**STF25NM60N**STMicroelectronics
MOSFET N-CH 600V 21A TO220FP**STF25N60M2**

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**STF25NM60ND**STMicroelectronics
MOSFET N-CH 600V 21A TO220FP**STF24NF12**

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.

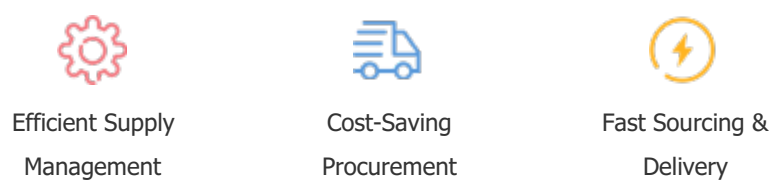
Contact us if you have any questions.

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.



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info@allelco.com

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