



Image may be representation.  
See specifications for product details.



## STW25NM50N

Manufacturer Part Number	<b>STW25NM50N</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STW25NM50N
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 500V 22A TO247-3
Package	TO-247-3
Data sheet	<b>STx25NM50N.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STW25NM50N - STMicroelectronics.New Original in Stock. Download Linear Technology STW25NM50N datasheet/specifications on AllelcoElec.com.  
Request a quote for STW25NM50N, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STW25NM50N Tech Specifications

STW25NM50N - 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-247-3	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)	160W (Tc)	Drain to Source Voltage (Vdss)	500 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	22A (Tc)
Package	Tube	Base Product Number	STW25N

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STW25NM50N

Product Attribute				
Part Number	STW25NM50N	STW25N95K3	STW24N60M2	STW24NM60N
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Gate Charge (Qg) (Max) @ Vgs	84 nC @ 10 V	105 nC @ 10 V	29 nC @ 10 V	46 nC @ 10 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Rds On (Max) @ Id, Vgs	140mOhm @ 11A, 10V	360mOhm @ 11A, 10V	190mOhm @ 9A, 10V	190mOhm @ 8A, 10V
Base Product Number	STW25N	STW25N	-	STW24N
FET Feature	-	-	-	-
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Drain to Source Voltage (Vdss)	500 V	950 V	600 V	600 V
Input Capacitance (Ciss) (Max) @ Vds	2565 pF @ 25 V	3680 pF @ 100 V	1060 pF @ 100 V	1400 pF @ 50 V
Supplier Device Package	TO-247-3	TO-247-3	TO-247	TO-247-3
Power Dissipation (Max)	160W (Tc)	400W (Tc)	150W (Tc)	125W (Tc)
Current - Continuous Drain (Id) @ 25°C	22A (Tc)	22A (Tc)	18A (Tc)	17A (Tc)
Vgs(th) (Max) @ Id	4V @ 250µA	5V @ 150µA	4V @ 250µA	4V @ 250µA
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Tube	Tube	Tube
Vgs (Max)	±25V	±30V	±25V	±30V
Series	MDmesh™ II	SuperMESH3™	-	MDmesh™ II

### STW25NM50N Datasheet PDF

Download STW25NM50N pdf datasheets and STMicroelectronics documentation for STW25NM50N - STMicroelectronics.

#### Datasheets

STx25NM50N.pdf

### Customers Also Interested in

#### Recommended Products



**STW25NM60**  
STMicroelectronics

**STW25N95K3**  
STMicroelectronics  
MOSFET N-CH 950V 22A TO247

**STW24N60M2**  
STMicroelectronics  
N-channel 600 V, 0.168 Ohm typ.,

**STW24N60M2 24N60M2**  
STMicroelectronics

**STW24NM60N**  
STMicroelectronics  
MOSFET N-CH 600V 17A TO247

**STW25N80K5**  
STMicroelectronics  
MOSFET N-CH 800V 19.5A TO247



**STW24N60M2 MOS**  
STMicroelectronics

**STW26NM60**  
STMicroelectronics  
MOSFET N-CH 600V 30A TO247-3

**STW26N60M2**  
STMicroelectronics  
MOSFET N-CH 600V 20A TO247

**STW27N60M2-EP**  
STMicroelectronics  
MOSFET N-CH 600V 20A TO247-3

**STW25N60M2-EP**  
STMicroelectronics  
MOSFET N-CHANNEL 600V 18A TO247

**STW26NM50**  
STMicroelectronics  
MOSFET N-CH 500V 30A TO247-3



**STW25NM60N**  
STMicroelectronics  
MOSFET N-CH 600V 21A TO247-3

**STW26NM60N**  
STMicroelectronics  
MOSFET N-CH 600V 20A TO247-3

**STW26N65DM2**  
STMicroelectronics  
MOSFET N-CH 650V 20A TO247

**STW25NM60ND**  
STMicroelectronics  
MOSFET N-CH 600V 21A TO247-3

**STW24N60DM2**  
STMicroelectronics  
MOSFET N-CH 600V 18A TO247

**STW24NM65N**  
STMicroelectronics  
MOSFET N-CH 650V 19A TO247-3

## 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  
+00852 9146 4856  
 Email  
info@allelco.com

## Certifications & Memberships



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