



Image may be representation.
See specifications for product details.



STW23N85K5

Manufacturer Part Number	STW23N85K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STW23N85K5
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 850V 19A TO247
Package	TO-247-3
Data sheet	STW23N85K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STW23N85K5 - STMicroelectronics. New Original in Stock. Download Linear Technology STW23N85K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STW23N85K5, please send us email: info@allelco.com

Specifications

STW23N85K5 Tech Specifications
STW23N85K5 - 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 @ 100µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1650 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	38 nC @ 10 V
Supplier Device Package	TO-247-3	FET Type	N-Channel
Series	SuperMESH5™	FET Feature	-
Rds On (Max) @ Id, Vgs	275mOhm @ 9.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	250W (Tc)	Drain to Source Voltage (Vdss)	850 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	19A (Tc)
Package	Tube	Base Product Number	STW23

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STW23N85K5

Product Attribute				
Part Number	STW23N85K5	STW240N10F7	STW22NM60N	STW24N60M2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Input Capacitance (Ciss) (Max) @ Vds	1650 pF @ 100 V	11550 pF @ 25 V	1330 pF @ 50 V	1060 pF @ 100 V
Power Dissipation (Max)	250W (Tc)	300W (Tc)	125W (Tc)	150W (Tc)
FET Feature	-	-	-	-
Vgs (Max)	±30V	±20V	±30V	±25V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Package	Tube	Tube	Tube	Tube
Vgs(th) (Max) @ Id	5V @ 100µA	4.5V @ 250µA	4V @ 250µA	4V @ 250µA
Series	SuperMESH5™	STripFET™ F7	MDmesh™ II	-
Current - Continuous Drain (Id) @ 25°C	19A (Tc)	180A (Tc)	16A (Tc)	18A (Tc)
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Supplier Device Package	TO-247-3	TO-247-3	TO-247-3	TO-247
Gate Charge (Qg) (Max) @ Vgs	38 nC @ 10 V	160 nC @ 10 V	44 nC @ 10 V	29 nC @ 10 V
Base Product Number	STW23	STW240	STW22N	-
Operating Temperature	150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Drain to Source Voltage (Vdss)	850 V	100 V	600 V	600 V
Rds On (Max) @ Id, Vgs	275mOhm @ 9.5A, 10V	3mOhm @ 90A, 10V	220mOhm @ 8A, 10V	190mOhm @ 9A, 10V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel

STW23N85K5 Datasheet PDF

Download STW23N85K5 pdf datasheets and STMicroelectronics documentation for STW23N85K5 - STMicroelectronics.

Datasheets

[STW23N85K5.pdf](#)

PCN Design/Specification

[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

PCN Obsolescence/ EOL

PCN Assembly/Origin

Customers Also Interested in

Recommended Products



STW21NM60ND MOS
STMicroelectronics



STW240N10F7
STMicroelectronics
MOSFET N-CH 100V 180A TO247



STW22NM60N
STMicroelectronics
MOSFET N-CH 600V 16A TO247-3



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



STW23NM60ND
STMicroelectronics
MOSFET N-CH 600V 19.5A TO247-3



STW220NF75
STMicroelectronics
MOSFET N-CH 75V 120A TO247-3



STW23NM60
STMicroelectronics



STW23NM50N MOS
STMicroelectronics



STW22N95K5
STMicroelectronics
MOSFET N-CH 950V 17.5A TO247



STW21NM60ND
STMicroelectronics
MOSFET N-CH 600V 17A TO247-3



STW23NM50N
STMicroelectronics
MOSFET N-CH 500V 17A TO247-3



STW220NF55
STMicroelectronics



STW23N80K5
STMicroelectronics
MOSFET N-CH 800V 16A TO247



STW22NM60
STMicroelectronics



STW23NM60N
STMicroelectronics
MOSFET N-CH 600V 19A TO247-3



STW22N95K5 MOS
STMicroelectronics



STW24N60DM2
STMicroelectronics
MOSFET N-CH 600V 18A TO247



STW21NM60N
STMicroelectronics
MOSFET N-CH 600V 17A 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



View More

Contact us

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