



Image may be representation.
See specifications for product details.



STW6N90K5

Manufacturer Part Number	STW6N90K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STW6N90K5
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 900V 6A TO247
Package	TO-247-3
Data sheet	STW6N90K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STW6N90K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STW6N90K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STW6N90K5, please send us email: info@allelco.com

Specifications

STW6N90K5 Tech Specifications

STW6N90K5 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package	Tube
Vgs(th) (Max) @ Id	5V @ 100µA	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs (Max)	±30V	Mounting Type	Through Hole
Technology	MOSFET (Metal Oxide)	FET Type	N-Channel
Supplier Device Package	TO-247	FET Feature	-
Series	MDmesh™ K5	Drive Voltage (Max Rds On, Min Rds On)	10V
Rds On (Max) @ Id, Vgs	1.1Ohm @ 3A, 10V	Drain to Source Voltage (Vdss)	900 V
Power Dissipation (Max)	110W (Tc)	Current - Continuous Drain (Id) @ 25°C	6A (Tc)
Package / Case	TO-247-3	Base Product Number	STW6N90

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STW6N90K5

Product Attribute				
Part Number	STW6N90K5	STW70N10F4	STW69N65M5-4	STW68N60M6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	150°C (TJ)	-55°C ~ 150°C (TJ)
Power Dissipation (Max)	110W (Tc)	150W (Tc)	330W (Tc)	390W (Tc)
FET Feature	-	-	-	-
Drain to Source Voltage (Vdss)	900 V	100 V	650 V	600 V
Vgs(th) (Max) @ Id	5V @ 100µA	4V @ 250µA	5V @ 250µA	4.75V @ 250µA
Package	Tube	Tube	Tube	Tube
Rds On (Max) @ Id, Vgs	1.1Ohm @ 3A, 10V	19.5mOhm @ 30A, 10V	45mOhm @ 29A, 10V	41mOhm @ 31.5A, 10V
Base Product Number	STW6N90	STW70N	STW69	STW68
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs (Max)	±30V	±20V	±25V	±25V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	0V, 10V
Series	MDmesh™ K5	DeepGATE™, STripFET™	MDmesh™ V	MDmesh™ M6
Current - Continuous Drain (Id) @ 25°C	6A (Tc)	65A (Tc)	58A (Tc)	63A (Tc)
Package / Case	TO-247-3	TO-247-3	TO-247-4	TO-247-3
Supplier Device Package	TO-247	TO-247-3	TO-247-4L	TO-247-3
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)

STW6N90K5 Datasheet PDF

Download STW6N90K5 pdf datasheets and STMicroelectronics documentation for STW6N90K5 - STMicroelectronics.

Datasheets

[STW6N90K5.pdf](#)

PCN Design/Specification















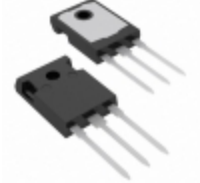



[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

PCN Assembly/Origin

[New Molding Compound 13/Sep/2019.pdf](#)

Customers Also Interested in

Recommended Products

					
STW70N10F4 STMicroelectronics MOSFET N-CH 100V 65A TO247-3	STW6NC90 STMicroelectronics	STW69N65M5-4 STMicroelectronics MOSFET N-CH 650V 58A TO247-4L	STW68N60M6 STMicroelectronics MOSFET N-CH 600V TO247-3	STW70N60DM2 STMicroelectronics MOSFET N-CH 600V 66A TO247	STW6NB100 STMicroelectronics
					
STW6NC90Z STMicroelectronics	STW6N95K5 MOS STMicroelectronics	STW6N120K3 STMicroelectronics MOSFET N-CH 1200V 6A TO247	STW65N80K5 STMicroelectronics MOSFET N-CH 800V 46A TO247	STW6NB90 STMicroelectronics	STW65N65DM2AG STMicroelectronics MOSFET N-CH 650V 60A TO247
					
STW6N100E STMicroelectronics	STW6N95K5 STMicroelectronics MOSFET N-CH 950V 9A TO247-3	STW63N65DM2 STMicroelectronics MOSFET N-CH 650V 65A TO247	STW65N60DM6 STMicroelectronics MOSFET N-CH 600V 38A TO247	STW69N65M5 STMicroelectronics MOSFET N-CH 650V 58A TO247	STW6N120K3 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

Contact us if you have any questions.

-  Phone
+00852 9146 4856
-  Email
info@allelco.com

Certifications & Memberships



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