

Image may be representation.
See specifications for product details.



STP23N80K5

Manufacturer Part Number	STP23N80K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP23N80K5
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 800V 16A TO220-3
Package	TO-220-3
Data sheet	STP23N80K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP23N80K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STP23N80K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STP23N80K5, please send us email: info@allelco.com

Specifications

STP23N80K5 Tech Specifications

STP23N80K5 - 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	5V @ 100µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1000 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	33 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	MDmesh™ K5	FET Feature	-
Rds On (Max) @ Id, Vgs	280mOhm @ 8A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	190W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	16A (Tc)
Package	Tube	Base Product Number	STP23

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP23N80K5

Product Attribute				
Part Number	STP23N80K5	STP23NM60N	STP240N10F7	STP24N60DM2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Gate Charge (Qg) (Max) @ Vgs	33 nC @ 10 V	60 nC @ 10 V	176 nC @ 10 V	29 nC @ 10 V
Base Product Number	STP23	STP23N	STP240	STP24
Input Capacitance (Ciss) (Max) @ Vds	1000 pF @ 100 V	2050 pF @ 50 V	12600 pF @ 25 V	1055 pF @ 100 V
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Current - Continuous Drain (Id) @ 25°C	16A (Tc)	19A (Tc)	180A (Tc)	18A (Tc)
Vgs(th) (Max) @ Id	5V @ 100µA	4V @ 250µA	4.5V @ 250µA	5V @ 250µA
Series	MDmesh™ K5	MDmesh™ II	DeepGATE™, STRipFET™ VII	FDmesh™ II Plus
Package	Tube	Tube	Tube	Tube
Drain to Source Voltage (Vdss)	800 V	600 V	100 V	600 V
FET Feature	-	-	-	-
Vgs (Max)	±30V	±25V	±20V	±25V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
Rds On (Max) @ Id, Vgs	280mOhm @ 8A, 10V	180mOhm @ 9.5A, 10V	3.2mOhm @ 60A, 10V	200mOhm @ 9A, 10V
Operating Temperature	-55°C ~ 150°C (TJ)	150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Power Dissipation (Max)	190W (Tc)	150W (Tc)	300W (Tc)	150W (Tc)

STP23N80K5 Datasheet PDF

Download STP23N80K5 pdf datasheets and STMicroelectronics documentation for STP23N80K5 - STMicroelectronics.

Datasheets

[STP23N80K5.pdf](#)

PCN Design/Specification

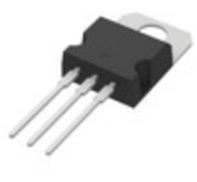
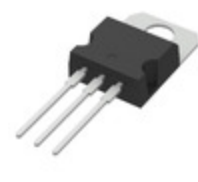




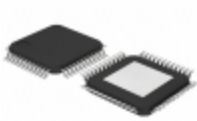











[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

PCN Assembly/Origin

PCN Obsolescence/ EOL

Customers Also Interested in

Recommended Products

					
STP23NM60N STMicroelectronics MOSFET N-CH 600V 19A TO220AB	STP240N10F7 STMicroelectronics MOSFET N-CH 100V 180A TO220	STP23N65M5 STMicroelectronics	STP2303 SEMTRON-MICRO	STP24N60DM2 STMicroelectronics MOSFET N-CH 600V 18A TO220	STP2305 SEMTRON-MICRO
					
STP24DP05BTR STMicroelectronics IC LED DRIVER LINEAR 80MA 48TQFP	STP2341 SEMTRON-MICRO	STP24810 MOS STMicroelectronics	STP23NM50N STMicroelectronics MOSFET N-CH 500V 17A TO220-3	STP24N60M2 STMicroelectronics MOSFET N-CH 600V 18A TO220	STP2301S-TRG SEMTRON-M
					
STP2397F-LF-26.0000MHZ RAKON	STP2327 STANSON	STP2305S-TRG SEMTRON	STP23NM60ND STMicroelectronics MOSFET N-CH 600V 19.5A TO220AB	STP2301 STANSON	STP2397F-LF-26MHZ RAKON

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



View More

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