

Image may be representation.
See specifications for product details.



STP10NK80ZFP

Manufacturer Part Number	STP10NK80ZFP
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP10NK80ZFP
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 800V 9A TO220FP
Package	TO-220-3 Full Pack
Data sheet	ST(P,W)10NK80Z(FP).pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP10NK80ZFP - STMicroelectronics.New Original in Stock. Download Linear Technology STP10NK80ZFP datasheet/specifications on AllelcoElec.com.
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Specifications

STP10NK80ZFP Tech Specifications

STP10NK80ZFP - 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	4.5V @ 100µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	2180 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	72 nC @ 10 V
Supplier Device Package	TO-220FP	FET Type	N-Channel
Series	SuperMESH™	FET Feature	-
Rds On (Max) @ Id, Vgs	900mOhm @ 4.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	40W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	9A (Tc)
Package	Tube	Base Product Number	STP10

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP10NK80ZFP

Product Attribute				
Part Number	STP10NK80ZFP	STP10NK60ZFP	STP10NM60N	STP10NM65N
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Feature	-	-	-	-
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Base Product Number	STP10	STP10	STP10	STP10
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Gate Charge (Qg) (Max) @ Vgs	72 nC @ 10 V	70 nC @ 10 V	19 nC @ 10 V	25 nC @ 10 V
Series	SuperMESH™	SuperMESH™	MDmesh™ II	MDmesh™ II
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3	TO-220-3
Vgs (Max)	±30V	±30V	±25V	±25V
Supplier Device Package	TO-220FP	TO-220FP	TO-220	TO-220
Drain to Source Voltage (Vdss)	800 V	600 V	600 V	650 V
Current - Continuous Drain (Id) @ 25°C	9A (Tc)	10A (Tc)	10A (Tc)	9A (Tc)
Rds On (Max) @ Id, Vgs	900mOhm @ 4.5A, 10V	750mOhm @ 4.5A, 10V	550mOhm @ 4A, 10V	480mOhm @ 4.5A, 10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Package	Tube	Tube	Tube	Tube
Input Capacitance (Ciss) (Max) @ Vds	2180 pF @ 25 V	1370 pF @ 25 V	540 pF @ 50 V	850 pF @ 50 V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Vgs(th) (Max) @ Id	4.5V @ 100µA	4.5V @ 250µA	4V @ 250µA	4V @ 250µA
Power Dissipation (Max)	40W (Tc)	35W (Tc)	70W (Tc)	90W (Tc)

STP10NK80ZFP Datasheet PDF

Download STP10NK80ZFP pdf datasheets and STMicroelectronics documentation for STP10NK80ZFP - STMicroelectronics.

Datasheets



















[ST\(P,W\)10NK80Z\(FP\).pdf](#)

PCN Assembly/Origin

[Assembly Location Expansion 05/Mar/2014.pdf](#)

Customers Also Interested in

Recommended Products

					
STP10NK60ZFP STMicroelectronics MOSFET N-CH 600V 10A TO220FP	STP10NM60N STMicroelectronics MOSFET N-CH 600V 10A TO220AB	STP10NK60ZFP MOS STMicroelectronics	STP10NM60N MOS STMicroelectronics	STP10NK60Z MOS STMicroelectronics	STP10NM65N STMicroelectronics MOSFET N-CH 650V 9A TO220AB
					
STP10NK60Z STMicroelectronics MOSFET N-CH 600V 10A TO220AB	STP110N10F7 MOS STMicroelectronics	STP10NK70ZFP STMicroelectronics MOSFET N-CH 700V 8.6A TO220FP	STP10NM60ND STMicroelectronics MOSFET N-CH 600V 8A TO220	STP10NK80Z MOS STMicroelectronics	STP10NM50N STMicroelectronics MOSFET N-CH 500V 7A TO220
					
STP10NK80Z STMicroelectronics MOSFET N-CH 800V 9A TO220AB	STP10NK70Z STMicroelectronics MOSFET N-CH 700V 8.6A TO220AB	STP110N10F7 STMicroelectronics MOSFET N CH 100V 110A TO-220	STP10NK50ZFP STMicroelectronics	STP110N55F6 STMicroelectronics MOSFET N-CH 55V 110A TO220	STP10P6F6 STMicroelectronics MOSFET P-CH 60V 10A TO220

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.



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-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

Contact us if you have any questions.

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Certifications & Memberships



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