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See specifications for product details.



STF10N80K5

Manufacturer Part Number	STF10N80K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STF10N80K5
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 800V 9A TO220FP
Package	TO-220-3 Full Pack
Data sheet	STF10N80K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STF10N80K5 - STMicroelectronics. New Original in Stock. Download Linear Technology STF10N80K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STF10N80K5, please send us email: info@allelco.com

Specifications

STF10N80K5 Tech Specifications
STF10N80K5 - 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	635 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	22 nC @ 10 V
Supplier Device Package	TO-220FP	FET Type	N-Channel
Series	MDmesh™	FET Feature	-
Rds On (Max) @ Id, Vgs	600mOhm @ 4.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	30W (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	STF10

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STF10N80K5

Product Attribute				
Part Number	STF10N80K5	STF10NM60N	STF10N95K5	STF10N60M2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Supplier Device Package	TO-220FP	TO-220FP	TO-220FP	TO-220FP
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Base Product Number	STF10	STF10	STF10	STF10
Drain to Source Voltage (Vdss)	800 V	600 V	950 V	600 V
Power Dissipation (Max)	30W (Tc)	25W (Tc)	30W (Tc)	25W (Tc)
Input Capacitance (Ciss) (Max) @ Vds	635 pF @ 100 V	540 pF @ 50 V	630 pF @ 100 V	400 pF @ 100 V
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
FET Feature	-	-	-	-
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Gate Charge (Qg) (Max) @ Vgs	22 nC @ 10 V	19 nC @ 10 V	22 nC @ 10 V	13.5 nC @ 10 V
Current - Continuous Drain (Id) @ 25°C	9A (Tc)	10A (Tc)	8A (Tc)	7.5A (Tc)
Package	Tube	Tube	Tube	Tube
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Series	MDmesh™	MDmesh™ II	SuperMESH5™	MDmesh™ II Plus
Rds On (Max) @ Id, Vgs	600mOhm @ 4.5A, 10V	550mOhm @ 4A, 10V	800mOhm @ 4A, 10V	600mOhm @ 4A, 10V
Vgs (Max)	±30V	±25V	±30V	±25V
Vgs(th) (Max) @ Id	5V @ 100µA	4V @ 250µA	5V @ 100µA	4V @ 250µA

STF10N80K5 Datasheet PDF

Download STF10N80K5 pdf datasheets and STMicroelectronics documentation for STF10N80K5 - STMicroelectronics.

Datasheets



















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PCN Assembly/Origin

[IPD/15/9124 20/Mar/2015.pdf](#)

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STF10N65K3 MOS STMicroelectronics	STF10NK80K5 STMicroelectronics	STF10N105K5 STMicroelectronics MOSFET N-CH 1050V 6A TO220FP	STF10NM50N STMicroelectronics MOSFET N-CH 500V 7A TO220FP	STF10N65K3 STMicroelectronics MOSFET N-CH 650V 10A TO220FP	STF10N65 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

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