

Image may be representation.
See specifications for product details.



STP20NM60FD

Manufacturer Part Number	STP20NM60FD
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP20NM60FD
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 600V 20A TO220AB
Package	TO-220-3
Data sheet	STx20NM60D.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP20NM60FD - STMicroelectronics.New Original in Stock. Download Linear Technology STP20NM60FD datasheet/specifications on AllelcoElec.com.
Request a quote for STP20NM60FD, please send us email: info@allelco.com

Specifications

STP20NM60FD Tech Specifications
STP20NM60FD - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-65°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	5V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1300 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	37 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	FDmesh™	FET Feature	-
Rds On (Max) @ Id, Vgs	290mOhm @ 10A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	192W (Tc)	Drain to Source Voltage (Vdss)	600 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	20A (Tc)
Package	Tube	Base Product Number	STP20

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP20NM60FD

Product Attribute				
Part Number	STP20NM60FD	STP21N90K5	STP20NM50FP	STP20NK50Z
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Feature	-	-	-	-
Operating Temperature	-65°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-65°C ~ 150°C (TJ)	-50°C ~ 150°C (TJ)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Rds On (Max) @ Id, Vgs	290mOhm @ 10A, 10V	299mOhm @ 9A, 10V	250mOhm @ 10A, 10V	270mOhm @ 8.5A, 10V
Drain to Source Voltage (Vdss)	600 V	900 V	550 V	500 V
Vgs(th) (Max) @ Id	5V @ 250µA	5V @ 100µA	5V @ 250µA	4.5V @ 100µA
Series	FDmesh™	SuperMESH5™	MDmesh™	SuperMESH™
Gate Charge (Qg) (Max) @ Vgs	37 nC @ 10 V	43 nC @ 10 V	56 nC @ 10 V	119 nC @ 10 V
Input Capacitance (Ciss) (Max) @ Vds	1300 pF @ 25 V	1645 pF @ 100 V	1480 pF @ 25 V	2600 pF @ 25 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Package / Case	TO-220-3	TO-220-3	TO-220-3 Full Pack	TO-220-3
Vgs (Max)	±30V	±30V	±30V	±30V
Package	Tube	Tube	Tube	Tube
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Power Dissipation (Max)	192W (Tc)	250W (Tc)	45W (Tc)	190W (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Supplier Device Package	TO-220	TO-220	TO-220FP	TO-220
Current - Continuous Drain (Id) @ 25°C	20A (Tc)	18.5A (Tc)	20A (Tc)	17A (Tc)
Base Product Number	STP20	STP21	STP20N	STP20

STP20NM60FD Datasheet PDF

Download STP20NM60FD pdf datasheets and STMicroelectronics documentation for STP20NM60FD - STMicroelectronics.

Datasheets

[STx20NM60D.pdf](#)



















PCN Design/Specification

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

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 STP21N65M5 MOS STMicroelectronics	 STP21N90K5 STMicroelectronics MOSFET N-CH 900V 18.5A TO220-3	 STP20NM50 MOS STMicroelectronics	 STP20NM50FP STMicroelectronics MOSFET N-CH 550V 20A TO220FP	 STP20NK50Z STMicroelectronics MOSFET N-CH 500V 17A TO220AB	 STP20NM60 STMicroelectronics MOSFET N-CH 600V 20A TO220AB
 STP210N75F6 STMicroelectronics MOSFET N-CH 75V 120A TO220	 STP20NM60FP STMicroelectronics MOSFET N-CH 600V 20A TO220FP	 STP210N15F6 STMicroelectronics	 STP21N65M5 STMicroelectronics MOSFET N-CH 650V 17A TO220AB	 STP20NM50FD STMicroelectronics MOSFET N-CH 500V 20A TO220AB	 STP20NF20 P20NF20 STMicroelectronics
 STP20NM50 P20NM50 STMicroelectronics	 STP20NM65N STMicroelectronics MOSFET N-CH 650V 15A TO220	 STP21NM50N STMicroelectronics MOSFET N-CH 500V 18A TO220AB	 STP20NM60FP MOS STMicroelectronics	 STP20NM50 STMicroelectronics MOSFET N-CH 500V 20A TO220AB	 STP20NM50FD 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
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Contact us if you have any questions.

 Phone +00852 9146 4856	 Email info@allelco.com
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Certifications & Memberships



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Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong
Phone: +00852 9146 4856
Fax: +00852 3010 8510
Email: info@Allelco.com