



Image may be representation.
See specifications for product details.



STB20NM50T4

Manufacturer Part Number	STB20NM50T4
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STB20NM50T4
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 550V 20A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	STB20NM50(-1), STP20NM50(FP).pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STB20NM50T4 - STMicroelectronics.New Original in Stock. Download Linear Technology STB20NM50T4 datasheet/specifications on AllelcoElec.com.
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Specifications

STB20NM50T4 Tech Specifications

STB20NM50T4 - 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	Surface Mount
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1480 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	56 nC @ 10 V
Supplier Device Package	D2PAK	FET Type	N-Channel
Series	MDmesh™	FET Feature	-
Rds On (Max) @ Id, Vgs	250mOhm @ 10A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	192W (Tc)	Drain to Source Voltage (Vdss)	550 V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	20A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STB20

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STB20NM50T4

Product Attribute				
Part Number	STB20NM50T4	STB20NM60-1	STB20N65M5	STB20NM60D
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Series	MDmesh™	MDmesh™	MDmesh™ V	FDmesh™
Base Product Number	STB20	STB20N	STB20	STB20
Supplier Device Package	D2PAK	I2PAK	D ² PAK (TO-263)	D2PAK
FET Feature	-	-	-	-
Drain to Source Voltage (Vdss)	550 V	600 V	650 V	600 V
Package	Tape & Reel (TR)	Tube	Tape & Reel (TR)	Tape & Reel (TR)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Vgs (Max)	±30V	±30V	±25V	±30V
Rds On (Max) @ Id, Vgs	250mOhm @ 10A, 10V	290mOhm @ 10A, 10V	190mOhm @ 9A, 10V	290mOhm @ 10A, 10V
Gate Charge (Qg) (Max) @ Vgs	56 nC @ 10 V	54 nC @ 10 V	36 nC @ 10 V	52 nC @ 10 V
Operating Temperature	-65°C ~ 150°C (TJ)	150°C (TJ)	150°C (TJ)	-65°C ~ 150°C (TJ)
Mounting Type	Surface Mount	Through Hole	Surface Mount	Surface Mount
Current - Continuous Drain (Id) @ 25°C	20A (Tc)	20A (Tc)	18A (Tc)	20A (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-262-3 Long Leads, I ² Pak, TO-262AA	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Input Capacitance (Ciss) (Max) @ Vds	1480 pF @ 25 V	1500 pF @ 25 V	1434 pF @ 100 V	1300 pF @ 25 V
Power Dissipation (Max)	192W (Tc)	192W (Tc)	130W (Tc)	192W (Tc)
Vgs(th) (Max) @ Id	5V @ 250µA	5V @ 250µA	5V @ 250µA	5V @ 250µA

STB20NM50T4 Datasheet PDF

Download STB20NM50T4 pdf datasheets and STMicroelectronics documentation for STB20NM50T4 - STMicroelectronics.

Datasheets

[STB20NM50\(-1\), STP20NM50\(FP\).pdf](#)



















PCN Packaging

[Mult Dev Inner Box Chg 9/Dec/2021.pdf](#)

PCN Design/Specification

Customers Also Interested in

Recommended Products

 STB20NM60-1 STMicroelectronics MOSFET N-CH 600V 20A I2PAK	 STB20GC14.18750MHZ SUNNY	 STB20NM50T4 MOS STMicroelectronics	 STB20GC14.31818MHZ SUNNY	 STB20N65M5 STMicroelectronics MOSFET N-CH 650V 18A D2PAK	 STB20NM50FD STMicroelectronics
 STB20NM60D STMicroelectronics MOSFET N-CH 600V 20A D2PAK	 STB21NK50Z STMicroelectronics MOSFET N-CH 500V 17A D2PAK	 STB21N90K5 STMicroelectronics MOSFET N-CH 900V 18.5A D2PAK	 STB20N95K5 STMicroelectronics MOSFET N-CH 950V 17.5A D2PAK	 STB20NM60 STMicroelectronics	 STB21N65M5 STMicroelectronics MOSFET N-CH 650V 17A D2PAK
 STB20NM50 STMicroelectronics	 STB20NK50Z STMicroelectronics	 STB20NF06LT4 STMicroelectronics	 STB20NM60T4 STMicroelectronics MOSFET N-CH 600V 20A D2PAK	 STB20NK50ZT4 STMicroelectronics MOSFET N-CH 500V 17A D2PAK	 STB21N50C3 Cypress Semiconductor (Infineon Technologies)

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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Contact us if you have any questions.

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Certifications & Memberships



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Contact us

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