



Image may be representation.
See specifications for product details.



STB14NK50ZT4

Manufacturer Part Number	STB14NK50ZT4
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STB14NK50ZT4
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CH 500V 14A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	STx14NK50Z(FP,-1).pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STB14NK50ZT4 - STMicroelectronics.New Original in Stock. Download Linear Technology STB14NK50ZT4 datasheet/specifications on AllelcoElec.com.
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Specifications

STB14NK50ZT4 Tech Specifications

STB14NK50ZT4 - 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	Surface Mount
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	2000 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	92 nC @ 10 V
Supplier Device Package	D2PAK	FET Type	N-Channel
Series	SuperMESH™	FET Feature	-
Rds On (Max) @ Id, Vgs	380mOhm @ 6A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	150W (Tc)	Drain to Source Voltage (Vdss)	500 V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	14A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STB14

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STB14NK50ZT4

Product Attribute				
Part Number	STB14NK50ZT4	STB140NF75T4	STB14NM65N	STB14NK60ZT4
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Input Capacitance (Ciss) (Max) @ Vds	2000 pF @ 25 V	5000 pF @ 25 V	1300 pF @ 50 V	2220 pF @ 25 V
Power Dissipation (Max)	150W (Tc)	310W (Tc)	125W (Tc)	160W (Tc)
Current - Continuous Drain (Id) @ 25°C	14A (Tc)	120A (Tc)	12A (Tc)	13.5A (Tc)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Supplier Device Package	D2PAK	D2PAK	D2PAK	D2PAK
Vgs(th) (Max) @ Id	4.5V @ 100µA	4V @ 250µA	4V @ 250µA	4.5V @ 100µA
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Feature	-	-	-	-
Rds On (Max) @ Id, Vgs	380mOhm @ 6A, 10V	7.5mOhm @ 70A, 10V	380mOhm @ 6A, 10V	500mOhm @ 6A, 10V
Gate Charge (Qg) (Max) @ Vgs	92 nC @ 10 V	218 nC @ 10 V	45 nC @ 10 V	75 nC @ 10 V
Base Product Number	STB14	STB140	STB14N	STB14
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Drain to Source Voltage (Vdss)	500 V	75 V	650 V	600 V
Series	SuperMESH™	STripFET™ III	MDmesh™ II	SuperMESH™
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	150°C (TJ)	-55°C ~ 150°C (TJ)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Vgs (Max)	±30V	±20V	±25V	±30V

STB14NK50ZT4 Datasheet PDF

Download STB14NK50ZT4 pdf datasheets and STMicroelectronics documentation for STB14NK50ZT4 - STMicroelectronics.

Datasheets

[STx14NK50Z\(FP,-1\).pdf](#)



















PCN Design/Specification

[D2PAK Lead Modification 04/Oct/2013.pdf](#)

[IPG-PWR/14/8422 11/Apr/2014.pdf](#)

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Recommended Products

 STB140NF75T4 STMicroelectronics MOSFET N-CH 75V 120A D2PAK	 STB14NM65N STMicroelectronics MOSFET N-CH 650V 12A D2PAK	 STB14NK50Z IR	 STB14NK60ZT4 STMicroelectronics MOSFET N-CH 600V 13.5A D2PAK	 STB14NK50ZT4 MOS STMicroelectronics	 STB140NF75T4 MOS STMicroelectronics
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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:
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