

Image may be representation.  
See specifications for product details.



## STB40NF10T4

Manufacturer Part Number	<b>STB40NF10T4</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STB40NF10T4
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 100V 50A D2PAK
Package	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB
Data sheet	STB40NF10T4.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STB40NF10T4 - STMicroelectronics.New Original in Stock. Download Linear Technology STB40NF10T4 datasheet/specifications on AllelcoElec.com.  
Request a quote for STB40NF10T4, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STB40NF10T4 Tech Specifications  
STB40NF10T4 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-50°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	1780 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	80 nC @ 10 V
Supplier Device Package	D2PAK	FET Type	N-Channel
Series	STripFET™ II	FET Feature	-
Rds On (Max) @ Id, Vgs	28mOhm @ 25A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	150W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	50A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STB40N

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STB40NF10T4

Product Attribute				
Part Number	STB40NF10T4	<b>STB40NF10LT4</b>	<b>STB42N65M5</b>	<b>STB42N60M2-EP</b>
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Vgs (Max)	±20V	±15V	±25V	±25V
Drive Voltage (Max Rds On, Min Rds On)	10V	5V, 10V	10V	10V
Package / Case	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Base Product Number	STB40N	STB40	STB42	STB42
Rds On (Max) @ Id, Vgs	28mOhm @ 25A, 10V	33mOhm @ 20A, 10V	79mOhm @ 16.5A, 10V	87mOhm @ 17A, 10V
Gate Charge (Qg) (Max) @ Vgs	80 nC @ 10 V	64 nC @ 4.5 V	100 nC @ 10 V	55 nC @ 10 V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Drain to Source Voltage (Vdss)	100 V	100 V	650 V	600 V
Supplier Device Package	D2PAK	D2PAK	D2PAK	D <sup>2</sup> PAK (TO-263)
Current - Continuous Drain (Id) @ 25°C	50A (Tc)	40A (Tc)	33A (Tc)	34A (Tc)
Operating Temperature	-50°C ~ 175°C (TJ)	-65°C ~ 175°C (TJ)	150°C (TJ)	150°C (TJ)
Power Dissipation (Max)	150W (Tc)	150W (Tc)	190W (Tc)	250W (Tc)
Series	STripFET™ II	STripFET™ II	MDmesh™ V	MDmesh™ M2-EP
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Input Capacitance (Ciss) (Max) @ Vds	1780 pF @ 25 V	2300 pF @ 25 V	4650 pF @ 100 V	2370 pF @ 100 V
FET Feature	-	-	-	-
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs(th) (Max) @ Id	4V @ 250µA	2.5V @ 250µA	5V @ 250µA	4.75V @ 250µA

### STB40NF10T4 Datasheet PDF

Download STB40NF10T4 pdf datasheets and STMicroelectronics documentation for STB40NF10T4 - STMicroelectronics.

#### PCN Design/Specification

D2PAK Lead Modification 04/Oct/2013.pdf



















IPG-PWR/14/8422 11/Apr/2014.pdf

#### PCN Obsolescence/ EOL

STN/B/P 07/Feb/2018.pdf

## Customers Also Interested in

### Recommended Products

 <b>STB40NF10LT4</b> STMicroelectronics MOSFET N-CH 100V 40A D2PAK	 <b>STB40NF10L</b> VBSEMI MOSFET N-CH 200V 40A D2PAK	 <b>STB42N65M5</b> STMicroelectronics MOSFET N-CH 650V 33A D2PAK	 <b>STB42N60M2-EP</b> STMicroelectronics MOSFET N-CH 600V 34A D2PAK	 <b>STB43N60DM2</b> STMicroelectronics MOSFET N-CH 600V 34A D2PAK	 <b>STB40NF10 B40NF10</b> STMicroelectronics
 <b>STB40N60M2</b> STMicroelectronics MOSFET N-CH 600V 34A D2PAK	 <b>STB40NF20</b> STMicroelectronics MOSFET N-CH 200V 40A D2PAK	 <b>STB40N20</b> STMicroelectronics MOSFET N-CH 200V 40A D2PAK	 <b>STB45N30M5</b> STMicroelectronics NCHANNEL 300 V 0.037 OHM TYP. 53	 <b>STB45N40DM2AG</b> STMicroelectronics MOSFET N-CH 400V 38A D2PAK	 <b>STB40NF10LT4 MOS</b> STMicroelectronics
 <b>STB40NE03L</b> STMicroelectronics	 <b>STB40NF10</b> STMicroelectronics	 <b>STB40NS15T4</b> STMicroelectronics MOSFET N-CH 150V 40A D2PAK	 <b>STB40NF03L</b> STMicroelectronics	 <b>STB40CC-20.000MHZ</b> SUNMYUNG	 <b>STB42N60M2</b> 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.



### Your Faithful Supply Chain Partner -

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

Contact us if you have any questions.

-  Phone  
+00852 9146 4856
-  Email  
info@allelco.com

### Certifications & Memberships



[View More](#)

### 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