



Image may be representation.
See specifications for product details.



STB10LN80K5

Manufacturer Part Number	STB10LN80K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STB10LN80K5
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CHANNEL 800V 8A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	STB10LN80K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STB10LN80K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STB10LN80K5 datasheet/specifications on AllelcoElec.com.
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Specifications

STB10LN80K5 Tech Specifications

STB10LN80K5 - 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	Surface Mount
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	427 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	15 nC @ 10 V
Supplier Device Package	D ² PAK (TO-263)	FET Type	N-Channel
Series	MDmesh™ K5	FET Feature	-
Rds On (Max) @ Id, Vgs	630mOhm @ 4A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	110W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	8A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STB10

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STB10LN80K5

Product Attribute				
Part Number	STB10LN80K5	STB10N60M2	STB100NF04T4	STB10N95K5
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Rds On (Max) @ Id, Vgs	630mOhm @ 4A, 10V	600mOhm @ 3A, 10V	4.6mOhm @ 50A, 10V	800mOhm @ 4A, 10V
Input Capacitance (Ciss) (Max) @ Vds	427 pF @ 100 V	400 pF @ 100 V	5100 pF @ 25 V	630 pF @ 100 V
Current - Continuous Drain (Id) @ 25°C	8A (Tc)	7.5A (Tc)	120A (Tc)	8A (Tc)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Drain to Source Voltage (Vdss)	800 V	600 V	40 V	950 V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Base Product Number	STB10	STB10	STB100	STB10
Supplier Device Package	D ² PAK (TO-263)	D ² PAK (TO-263)	D2PAK	D ² PAK (TO-263)
Vgs(th) (Max) @ Id	5V @ 100µA	4V @ 250µA	4V @ 250µA	5V @ 100µA
Power Dissipation (Max)	110W (Tc)	85W (Tc)	300W (Tc)	130W (Tc)
Gate Charge (Qg) (Max) @ Vgs	15 nC @ 10 V	13.5 nC @ 10 V	150 nC @ 10 V	22 nC @ 10 V
Vgs (Max)	±30V	±25V	±20V	±30V
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
FET Feature	-	-	-	-
Series	MDmesh™ K5	MDmesh™ II Plus	Automotive, AEC-Q101, STripFET™ II	SuperMESH5™
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)

STB10LN80K5 Datasheet PDF

Download STB10LN80K5 pdf datasheets and STMicroelectronics documentation for STB10LN80K5 - STMicroelectronics.

Datasheets



















[STB10LN80K5.pdf](#)

PCN Packaging

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STB100NF03L-03 STMicroelectronics	STB10N60M2 STMicroelectronics MOSFET N-CH 600V 7.5A D2PAK	STB10NB20T4 STMicroelectronics	STB100NF03L STMicroelectronics	STB100NF04T4 STMicroelectronics MOSFET N-CH 40V 120A D2PAK	STB10N95K5 STMicroelectronics MOSFET N-CH 950V 8A D2PAK
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STB10N65K3 STMicroelectronics MOSFET N-CH 650V 10A D2PAK	STB100NF03L-03T4 STMicroelectronics MOSFET N-CH 30V 100A D2PAK	STB100NF03L-03-1 STMicroelectronics MOSFET N-CH 30V 100A I2PAK	STB10NB50T4 MOS STMicroelectronics	STB100NH02LT4 STMicroelectronics MOSFET N-CH 24V 60A D2PAK	STB100NF04L VBSEMI

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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