



Image may be representation.
See specifications for product details.



STB15N80K5

Manufacturer Part Number	STB15N80K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STB15N80K5
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N CH 800V 14A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	STx15N80K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STB15N80K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STB15N80K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STB15N80K5, please send us email: info@allelco.com

Specifications

STB15N80K5 Tech Specifications

STB15N80K5 - 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	1100 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	32 nC @ 10 V
Supplier Device Package	D ² PAK (TO-263)	FET Type	N-Channel
Series	SuperMESH5™	FET Feature	-
Rds On (Max) @ Id, Vgs	375mOhm @ 7A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	190W (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	14A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STB15

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STB15N80K5

Product Attribute				
Part Number	STB15N80K5	STB14NM65N	STB15NM60N	STB160N75F3
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Current - Continuous Drain (Id) @ 25°C	14A (Tc)	12A (Tc)	14A (Tc)	120A (Tc)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Drain to Source Voltage (Vdss)	800 V	650 V	600 V	75 V
FET Feature	-	-	-	-
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(th) (Max) @ Id	5V @ 100µA	4V @ 250µA	4V @ 250µA	4V @ 250µA
Operating Temperature	-55°C ~ 150°C (TJ)	150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)
Vgs (Max)	±30V	±25V	±25V	±20V
Input Capacitance (Ciss) (Max) @ Vds	1100 pF @ 100 V	1300 pF @ 50 V	1250 pF @ 50 V	6750 pF @ 25 V
Power Dissipation (Max)	190W (Tc)	125W (Tc)	125W (Tc)	330W (Tc)
Supplier Device Package	D ² PAK (TO-263)	D2PAK	D2PAK	D2PAK
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Rds On (Max) @ Id, Vgs	375mOhm @ 7A, 10V	380mOhm @ 6A, 10V	299mOhm @ 7A, 10V	4mOhm @ 60A, 10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Base Product Number	STB15	STB14N	STB15N	STB160
Series	SuperMESH5™	MDmesh™ II	MDmesh™ II	STripFET™
Gate Charge (Qg) (Max) @ Vgs	32 nC @ 10 V	45 nC @ 10 V	37 nC @ 10 V	85 nC @ 10 V

STB15N80K5 Datasheet PDF

Download STB15N80K5 pdf datasheets and STMicroelectronics documentation for STB15N80K5 - STMicroelectronics.

Datasheets

[STx15N80K5.pdf](#)

PCN Packaging



















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

PCN Design/Specification

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 STB14NK60ZT4 MOS STMicroelectronics	 STB14NM65N STMicroelectronics MOSFET N-CH 650V 12A D2PAK	 STB150NF55T4 MOS STMicroelectronics	 STB15NM60N STMicroelectronics MOSFET N-CH 600V 14A D2PAK	 STB160N75F3 STMicroelectronics MOSFET N-CH 75V 120A D2PAK	 STB150NF04 STMicroelectronics MOSFET N-CH 40V 80A D2PAK
 STB15NM65N STMicroelectronics MOSFET N-CH 650V 12A D2PAK	 STB15NM65N MOS STMicroelectronics	 STB15810 STMicroelectronics N-channel 800 V, 0.300 Ohm typ.,	 STB14NK60ZT4 STMicroelectronics MOSFET N-CH 600V 13.5A D2PAK	 STB15NK50Z STMicroelectronics	 STB150NF55T4 STMicroelectronics MOSFET N-CH 55V 120A D2PAK
 STB14NM50N STMicroelectronics MOSFET N-CH 500V 12A D2PAK	 STB16N65M5 STMicroelectronics MOSFET N-CH 650V 12A D2PAK	 STB160N75F3 MOS STMicroelectronics	 STB15NM60ND STMicroelectronics MOSFET N-CH 600V 14A D2PAK	 STB155N3LH6 STMicroelectronics MOSFET N-CH 30V 80A D2PAK	 STB15N65M5 STMicroelectronics MOSFET N-CH 650V 11A D2PAK

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.

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Certifications & Memberships



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Contact us

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