



Image may be representation.
See specifications for product details.



STB13N80K5

Manufacturer Part Number	STB13N80K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STB13N80K5
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 800V 12A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	ST(B,F,P,W)13N80K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STB13N80K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STB13N80K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STB13N80K5, please send us email: info@allelco.com

Specifications

STB13N80K5 Tech Specifications

STB13N80K5 - 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	870 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	29 nC @ 10 V
Supplier Device Package	D ² PAK (TO-263)	FET Type	N-Channel
Series	SuperMESH5™	FET Feature	-
Rds On (Max) @ Id, Vgs	450mOhm @ 6A, 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	12A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STB13

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STB13N80K5

Product Attribute				
Part Number	STB13N80K5	STB140N4F6	STB13NM60N	STB12NM60N
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Input Capacitance (Ciss) (Max) @ Vds	870 pF @ 100 V	-	790 pF @ 50 V	960 pF @ 50 V
FET Feature	-	-	-	-
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Rds On (Max) @ Id, Vgs	450mOhm @ 6A, 10V	-	360mOhm @ 5.5A, 10V	410mOhm @ 5A, 10V
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
Series	SuperMESH5™	STripFET™ F6	MDmesh™ II	MDmesh™ II
Current - Continuous Drain (Id) @ 25°C	12A (Tc)	80A (Tc)	11A (Tc)	10A (Tc)
Operating Temperature	-55°C ~ 150°C (TJ)	-	150°C (TJ)	-55°C ~ 150°C (TJ)
Supplier Device Package	D ² PAK (TO-263)	D ² PAK (TO-263)	D2PAK	D2PAK
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Gate Charge (Qg) (Max) @ Vgs	29 nC @ 10 V	-	30 nC @ 10 V	30.5 nC @ 10 V
Drain to Source Voltage (Vdss)	800 V	40 V	600 V	600 V
Drive Voltage (Max Rds On, Min Rds On)	10V	4.5V, 10V	10V	10V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Power Dissipation (Max)	190W (Tc)	168W (Tc)	90W (Tc)	90W (Tc)
Vgs(th) (Max) @ Id	5V @ 100µA	-	4V @ 250µA	4V @ 250µA
Vgs (Max)	±30V	-	±25V	±25V
Base Product Number	STB13	STB140	STB13	STB12N

STB13N80K5 Datasheet PDF

Download STB13N80K5 pdf datasheets and STMicroelectronics documentation for STB13N80K5 - STMicroelectronics.

Datasheets

ST(B,F,P,W)13N80K5.pdf

PCN Packaging

Box Label Chg 28/Jul/2016.pdf



















Mult Dev Inner Box Chg 9/Dec/2021.pdf

PCN Design/Specification

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 STB140N4F6 STMicroelectronics MOSFET N-CH 40V 80A D2PAK	 STB140NF75 STMicroelectronics	 STB13NM60N STMicroelectronics MOSFET N-CH 600V 11A D2PAK	 STB13005-1 STMicroelectronics TRANS NPN 400V 4A I2PAK	 STB12NM60N STMicroelectronics MOSFET N-CH 600V 10A D2PAK	 STB140NF55T4 MOS STMicroelectronics
 STB140NF75T4 STMicroelectronics MOSFET N-CH 75V 120A D2PAK	 STB13007DT4 STMicroelectronics TRANS NPN 400V 8A D2PAK	 STB140NF55T4 STMicroelectronics MOSFET N-CH 55V 80A D2PAK	 STB12NM50T4 MOS STMicroelectronics	 STB140NF75 MOS STMicroelectronics	 STB13N60M2 STMicroelectronics MOSFET N-CH 600V 11A D2PAK
 STB12NM60NT4 STMicroelectronics	 STB13NK60ZT4 MOS STMicroelectronics	 STB130N6F7 STMicroelectronics MOSFET N-CH 60V 80A D2PAK	 STB13005A STMicroelectronics	 STB13NK60ZT4 STMicroelectronics MOSFET N-CH 600V 13A D2PAK	 STB12NM50T4 STMicroelectronics MOSFET N-CH 550V 12A 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



View More

Contact us

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