



Image may be representation.
See specifications for product details.



STD2N80K5

Manufacturer Part Number	STD2N80K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STD2N80K5
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CH 800V 2A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	STx2N80K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STD2N80K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STD2N80K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STD2N80K5, please send us email: info@allelco.com

Specifications

STD2N80K5 Tech Specifications

STD2N80K5 - 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	95 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	3 nC @ 10 V
Supplier Device Package	DPAK	FET Type	N-Channel
Series	SuperMESH5™	FET Feature	-
Rds On (Max) @ Id, Vgs	4.50hm @ 1A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	45W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	2A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STD2N80

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STD2N80K5

Product Attribute				
Part Number	STD2N80K5	STD2HNK60Z-1	STD2N95K5	STD2N62K3
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Input Capacitance (Ciss) (Max) @ Vds	95 pF @ 100 V	280 pF @ 25 V	105 pF @ 100 V	340 pF @ 50 V
Package	Tape & Reel (TR)	Tube	Tape & Reel (TR)	Tape & Reel (TR)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Vgs(th) (Max) @ Id	5V @ 100µA	4.5V @ 50µA	5V @ 100µA	4.5V @ 50µA
Series	SuperMESH5™	SuperMESH™	SuperMESH5™	SuperMESH3™
Supplier Device Package	DPAK	TO-251 (IPAK)	DPAK	DPAK
Mounting Type	Surface Mount	Through Hole	Surface Mount	Surface Mount
Base Product Number	STD2N80	STD2HNK60	STD2N95	STD2N62
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	150°C (TJ)
Power Dissipation (Max)	45W (Tc)	45W (Tc)	45W (Tc)	45W (Tc)
Vgs (Max)	30V	±30V	30V	±30V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Rds On (Max) @ Id, Vgs	4.50hm @ 1A, 10V	4.80hm @ 1A, 10V	50hm @ 1A, 10V	3.60hm @ 1.1A, 10V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-251-3 Short Leads, IPak, TO-251AA	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63
Current - Continuous Drain (Id) @ 25°C	2A (Tc)	2A (Tc)	2A (Tc)	2.2A (Tc)
FET Feature	-	-	-	-
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drain to Source Voltage (Vdss)	800 V	600 V	950 V	620 V
Gate Charge (Qg) (Max) @ Vgs	3 nC @ 10 V	15 nC @ 10 V	10 nC @ 10 V	15 nC @ 10 V

STD2N80K5 Datasheet PDF

Download STD2N80K5 pdf datasheets and STMicroelectronics documentation for STD2N80K5 - STMicroelectronics.

Datasheets

[STx2N80K5.pdf](#)

PCN Packaging

[Box Label Chg 28/Jul/2016.pdf](#)

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

PCN Assembly/Origin



Customers Also Interested in

Recommended Products



STD2NB25T4
STMicroelectronics



STD2HNK60Z-1
STMicroelectronics
MOSFET N-CH 600V 2A IPAK



STD2N95K5
STMicroelectronics
MOSFET N-CH 950V 2A DPAK



STD2N40-1
STMicroelectronics



STD2N60
STMicroelectronics



STD2HNK60ZT4
STMicroelectronics



STD2N62K3
STMicroelectronics
MOSFET N-CH 620V 2.2A DPAK



STD2NB50T4
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STD2LN60K3
STMicroelectronics
MOSFET N CH 600V 2A DPAK



STD2HNK60Z
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MOSFET N-CH 600V 2A DPAK



STD2NA50T4
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STD29NF03LT4 MOS
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STD2HNK60Z MOS
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STD2NB50 MOS
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STD2NB60T4
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STD2HNK60Z-1 MOS
STMicroelectronics



STD2NB40-1
STMicroelectronics

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

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Certifications & Memberships



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