



Image may be representation.
See specifications for product details.



STD5N52K3

Manufacturer Part Number	STD5N52K3
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STD5N52K3
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CH 525V 4.4A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	STB,STD,STF,STP,STU5N52K3.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STD5N52K3 - STMicroelectronics.New Original in Stock. Download Linear Technology STD5N52K3 datasheet/specifications on AllelcoElec.com.
Request a quote for STD5N52K3, please send us email: info@allelco.com

Specifications

STD5N52K3 Tech Specifications

STD5N52K3 - 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	4.5V @ 50µA	Mounting Type	Surface Mount
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	545 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	17 nC @ 10 V
Supplier Device Package	DPAK	FET Type	N-Channel
Series	SuperMESH3™	FET Feature	-
Rds On (Max) @ Id, Vgs	1.50hm @ 2.2A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	70W (Tc)	Drain to Source Voltage (Vdss)	525 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	4.4A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STD5N52

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STD5N52K3

Product Attribute				
Part Number	STD5N52K3	STD5N60DM2	STD5N52U	STD5N65M6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	0V, 10V
Power Dissipation (Max)	70W (Tc)	45W (Tc)	70W (Tc)	45W (Tc)
Series	SuperMESH3™	MDmesh™ DM2	UltraFASTmesh™	MDmesh™ M6
Drain to Source Voltage (Vdss)	525 V	600 V	525 V	650 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Current - Continuous Drain (Id) @ 25°C	4.4A (Tc)	3.5A (Tc)	4.4A (Tc)	4A (Tc)
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63
Input Capacitance (Ciss) (Max) @ Vds	545 pF @ 100 V	375 pF @ 100 V	529 pF @ 25 V	170 pF @ 100 V
FET Feature	-	-	-	-
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Vgs (Max)	±30V	±30V	±30V	±25V
Rds On (Max) @ Id, Vgs	1.50hm @ 2.2A, 10V	1.550hm @ 1.75A, 10V	1.50hm @ 2.2A, 10V	1.30hm @ 2A, 10V
Vgs(th) (Max) @ Id	4.5V @ 50µA	5V @ 250µA	4.5V @ 50µA	3.75V @ 250µA
Base Product Number	STD5N52	STD5	STD5N52	STD5N65
Supplier Device Package	DPAK	DPAK	DPAK	DPAK
Gate Charge (Qg) (Max) @ Vgs	17 nC @ 10 V	8.6 nC @ 10 V	16.9 nC @ 10 V	5.1 nC @ 10 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)

STD5N52K3 Datasheet PDF

Download STD5N52K3 pdf datasheets and STMicroelectronics documentation for STD5N52K3 - STMicroelectronics.

Datasheets

[STB,STD,STF,STP,STU5N52K3.pdf](#)

PCN Packaging



















[Reel Design Change 22/Aug/2022.pdf](#)

PCN Assembly/Origin

PCN Design/Specification

Customers Also Interested in

Recommended Products

 STD5N60DM2 STMicroelectronics MOSFET N-CH 600V 3.5A DPAK	 STD5N52U STMicroelectronics MOSFET N-CH 525V 4.4A DPAK	 STD55NH2LLT4 MOS STMicroelectronics	 STD5N20T4/PK STMicroelectronics	 STD5N65M6 STMicroelectronics MOSFET N-CH 650V DPAK	 STD5N20L MOS STMicroelectronics
 STD5N20L STMicroelectronics	 STD5N20LT4 STMicroelectronics MOSFET N-CH 200V 5A DPAK	 STD55NH2LLT4-E STMicroelectronics	 STD5N80K5 STMicroelectronics MOSFET N-CH 800V 4A DPAK	 STD5N62K3 STMicroelectronics MOSFET N-CH 620V 4.2A DPAK	 STD5N60M2 STMicroelectronics MOSFET N-CH 600V 3.5A DPAK
 STD5N62K3 MOS STMicroelectronics	 STD5N20T4 STMicroelectronics MOSFET N-CH 200V 5A DPAK	 STD5N20LT4 MOS STMicroelectronics	 STD5N95K3 STMicroelectronics MOSFET N-CH 950V 4A DPAK	 STD5N20 STMicroelectronics	 STD5915T-AT AUK

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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