



Image may be representation.  
See specifications for product details.



## STD12N65M5

Manufacturer Part Number	<b>STD12N65M5</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STD12N65M5
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 650V 8.5A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	<b>STx12N65M5.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STD12N65M5 - STMicroelectronics. New Original in Stock. Download Linear Technology STD12N65M5 datasheet/specifications on AllelcoElec.com.  
Request a quote for STD12N65M5, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STD12N65M5 Tech Specifications  
STD12N65M5 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	150°C (TJ)
Vgs(th) (Max) @ Id	5V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±25V	Input Capacitance (Ciss) (Max) @ Vds	900 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	22 nC @ 10 V
Supplier Device Package	DPAK	FET Type	N-Channel
Series	MDmesh™ V	FET Feature	-
Rds On (Max) @ Id, Vgs	430mOhm @ 4.3A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	70W (Tc)	Drain to Source Voltage (Vdss)	650 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	8.5A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STD12

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STD12N65M5

Product Attribute				
Part Number	STD12N65M5	<b>STD12N50M2</b>	<b>STD12N60M2</b>	<b>STD12NF06-1</b>
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Gate Charge (Qg) (Max) @ Vgs	22 nC @ 10 V	15 nC @ 10 V	16 nC @ 10 V	12 nC @ 10 V
Power Dissipation (Max)	70W (Tc)	85W (Tc)	85W (Tc)	30W (Tc)
Vgs(th) (Max) @ Id	5V @ 250µA	4V @ 250µA	4V @ 250µA	4V @ 250µA
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tube
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Operating Temperature	150°C (TJ)	-55°C ~ 150°C (TJ)	150°C (TJ)	-55°C ~ 175°C (TJ)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Rds On (Max) @ Id, Vgs	430mOhm @ 4.3A, 10V	380mOhm @ 5A, 10V	450mOhm @ 4.5A, 10V	100mOhm @ 6A, 10V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Through Hole
Input Capacitance (Ciss) (Max) @ Vds	900 pF @ 100 V	550 pF @ 100 V	538 pF @ 100 V	315 pF @ 25 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Vgs (Max)	±25V	±30V	±25V	±20V
Drain to Source Voltage (Vdss)	650 V	500 V	600 V	60 V
Current - Continuous Drain (Id) @ 25°C	8.5A (Tc)	10A (Tc)	9A (Tc)	12A (Tc)
FET Feature	-	-	-	-
Series	MDmesh™ V	MDmesh™ M2	MDmesh™ M2	STripFET™ II
Supplier Device Package	DPAK	DPAK	DPAK	I-PAK
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-251-3 Short Leads, IPak, TO-251AA
Base Product Number	STD12	STD12	STD12	STD12

### STD12N65M5 Datasheet PDF

Download STD12N65M5 pdf datasheets and STMicroelectronics documentation for STD12N65M5 - STMicroelectronics.

#### Datasheets

[STx12N65M5.pdf](#)

















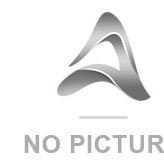

#### PCN Obsolescence/ EOL

[Multiple Devices 01/Aug/2014.pdf](#)

#### PCN Assembly/Origin

## Customers Also Interested in

### Recommended Products

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<b>STD12NE06LT4</b> STMicroelectronics	<b>STD12N10L</b> VBSEMI	<b>STD12N50M2</b> STMicroelectronics MOSFET N-CH 500V 10A DPAK	<b>STD12N06LT4</b> STMicroelectronics	<b>STD12N60M2</b> STMicroelectronics MOSFET N-CHANNEL 600V 9A DPAK	<b>STD12N06</b> STMicroelectronics
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<b>STD12NF06</b> STMicroelectronics	<b>STD12L01</b> SAMHOP	<b>STD12NE06T4</b> STMicroelectronics	<b>STD12N06T4</b> STMicroelectronics	<b>STD12NE06 MOS</b> STMicroelectronics	<b>STD12L01A</b> SAMHOP
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<b>STD12N10L-TR</b> STMicroelectronics	<b>STD12NE06L MOS</b> STMicroelectronics	<b>STD12NF06-1</b> STMicroelectronics MOSFET N-CH 60V 12A IPAK	<b>STD12NF06L</b> STMicroelectronics	<b>STD12NE06</b> VBSEMI	<b>STD12NE06LT4 MOS</b> 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.

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The payment method can be chosen from the methods shown below:  
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