



Image may be representation.  
See specifications for product details.



## STH315N10F7-6

Manufacturer Part Number	<b>STH315N10F7-6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STH315N10F7-6
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 100V 180A H2PAK-6
Package	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)
Data sheet	<b>STH315N10F7-2,STH315N10F7-6.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STH315N10F7-6 - STMicroelectronics.New Original in Stock. Download Linear Technology STH315N10F7-6 datasheet/specifications on AllelcoElec.com.  
Request a quote for STH315N10F7-6, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STH315N10F7-6 Tech Specifications

STH315N10F7-6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4.5V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	12800 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	180 nC @ 10 V
Supplier Device Package	H2PAK-6	FET Type	N-Channel
Series	Automotive, AEC-Q101, DeepGATE™, STripFET™ VII	FET Feature	-
Rds On (Max) @ Id, Vgs	2.3mOhm @ 60A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	315W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)	Current - Continuous Drain (Id) @ 25°C	180A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STH315

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STH315N10F7-6

Product Attribute				
Part Number	STH315N10F7-6	STH300NH02L-6	STH320N4F6-2	STH315N10F7-2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Supplier Device Package	H2PAK-6	H <sup>2</sup> PAK	H <sup>2</sup> PAK	H2Pak-2
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Drain to Source Voltage (Vdss)	100 V	24 V	40 V	100 V
Gate Charge (Qg) (Max) @ Vgs	180 nC @ 10 V	109 nC @ 10 V	240 nC @ 10 V	180 nC @ 10 V
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Power Dissipation (Max)	315W (Tc)	300W (Tc)	300W (Tc)	315W (Tc)
Series	Automotive, AEC-Q101, DeepGATE™, STripFET™ VII	Automotive, AEC-Q101, STripFET™ III	Automotive, AEC-Q101, DeepGATE™, STripFET™ VI	Automotive, AEC-Q101, DeepGATE™, STripFET™ VII
Input Capacitance (Ciss) (Max) @ Vds	12800 pF @ 25 V	7050 pF @ 15 V	13800 pF @ 15 V	12800 pF @ 25 V
Vgs (Max)	±20V	±20V	±20V	±20V
FET Feature	-	-	-	-
Vgs(th) (Max) @ Id	4.5V @ 250µA	1V @ 250µA	4V @ 250µA	4.5V @ 250µA
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Rds On (Max) @ Id, Vgs	2.3mOhm @ 60A, 10V	1.2mOhm @ 80A, 10V	1.3mOhm @ 80A, 10V	2.3mOhm @ 60A, 10V
Current - Continuous Drain (Id) @ 25°C	180A (Tc)	180A (Tc)	200A (Tc)	180A (Tc)
Package / Case	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab) Variant	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB
Base Product Number	STH315	STH300	STH320	STH315
Drive Voltage (Max Rds On, Min Rds On)	10V	5V, 10V	10V	10V

### STH315N10F7-6 Datasheet PDF

Download STH315N10F7-6 pdf datasheets and STMicroelectronics documentation for STH315N10F7-6 - STMicroelectronics.

#### Datasheets

[STH315N10F7-2,STH315N10F7-6.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

<b>STH300NH02L-6</b> STMicroelectronics MOSFET N-CH 24V 180A H2PAK	<b>STH33N20</b> STMicroelectronics	<b>STH320N4F6-2</b> STMicroelectronics MOSFET N-CH 40V 200A H2PAK	<b>STH315N10F7-2</b> STMicroelectronics MOSFET N-CH 100V 180A H2PAK-2	<b>STH320N4F6</b> STMicroelectronics	<b>STH320N4F6-2 MOS</b> STMicroelectronics
<b>STH275N8F7-6AG</b> STMicroelectronics MOSFET N-CH 80V 180A H2PAK-6	<b>STH320N4F6-6</b> STMicroelectronics MOSFET N-CH 40V 200A H2PAK-6	<b>STH36N60DM6</b> ST/TESLA	<b>STH289A</b> STMicroelectronics	<b>STH2APUR</b> STMicroelectronics	<b>STH360N4F6-2</b> STMicroelectronics MOSFET N-CH 40V 180A H2PAK-2
<b>STH3N150-2</b> STMicroelectronics MOSFET N-CH 1500V 2.5A H2PAK	<b>STH310N10F-2</b> STMicroelectronics	<b>STH2835-30-H-Q0Q1-B</b> Shineon	<b>STH2835-27-H-PJQF-B</b> Shineon	<b>STH310N10F7-6</b> STMicroelectronics MOSFET N-CH 100V 180A H2PAK-6	<b>STH310N10F7-2</b> STMicroelectronics MOSFET N-CH 100V 180A H2PAK-2

## 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.

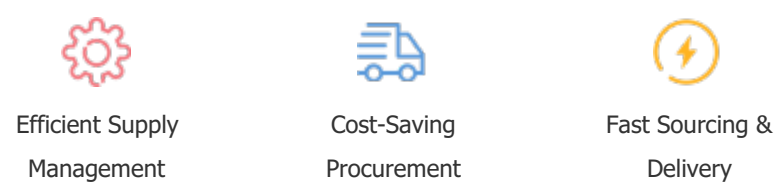
### Payment Support

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

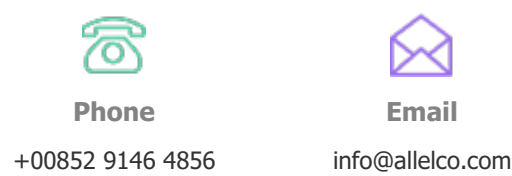
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



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