



STH315N10F7-2

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

Get a Quote

STH315N10F7-2 - STMicroelectronics.New Original in Stock. Download Linear Technology STH315N10F7-2 datasheet/specifications on AllelcoElec.com.
Request a quote for STH315N10F7-2, please send us email: info@allelco.com

Specifications

STH315N10F7-2 Tech Specifications
STH315N10F7-2 - 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-2	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-263-3, D ² Pak (2 Leads + Tab), TO-263AB	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 STH315N10F7-2

Product Attribute	NO PICTURE			
Part Number	STH315N10F7-2	STH310N10F7-6	STH320N4F6-2	STH270N8F7-2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Gate Charge (Qg) (Max) @ Vgs	180 nC @ 10 V	180 nC @ 10 V	240 nC @ 10 V	193 nC @ 10 V
Series	Automotive, AEC-Q101, DeepGATE™, STripFET™ VII	DeepGATE™, STripFET™ VII	Automotive, AEC-Q101, DeepGATE™, STripFET™ VI	DeepGATE™, STripFET™ VII
Base Product Number	STH315	STH310	STH320	STH270
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Vgs(th) (Max) @ Id	4.5V @ 250µA	3.8V @ 250µA	4V @ 250µA	4V @ 250µA
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-7, D ² Pak (6 Leads + Tab)	TO-263-3, D ² Pak (2 Leads + Tab) Variant	TO-263-3, D ² Pak (2 Leads + Tab) Variant
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Current - Continuous Drain (Id) @ 25°C	180A (Tc)	180A (Tc)	200A (Tc)	180A (Tc)
Vgs (Max)	±20V	±20V	±20V	±20V
Input Capacitance (Ciss) (Max) @ Vds	12800 pF @ 25 V	12800 pF @ 25 V	13800 pF @ 15 V	13600 pF @ 50 V
Power Dissipation (Max)	315W (Tc)	315W (Tc)	300W (Tc)	315W (Tc)
FET Feature	-	-	-	-
Drain to Source Voltage (Vdss)	100 V	100 V	40 V	80 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Rds On (Max) @ Id, Vgs	2.3mOhm @ 60A, 10V	2.5mOhm @ 60A, 10V	1.3mOhm @ 80A, 10V	2.1mOhm @ 90A, 10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Supplier Device Package	H2Pak-2	H2PAK-6	H ² PAK	H ² PAK

STH315N10F7-2 Datasheet PDF

Download STH315N10F7-2 pdf datasheets and STMicroelectronics documentation for STH315N10F7-2 - STMicroelectronics.

Datasheets

[STH315N10F7-2,STH315N10F7-6.pdf](#)

PCN Packaging



















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

PCN Assembly/Origin

PCN Design/Specification

Customers Also Interested in

Recommended Products

 STH310N10F7-6 STMicroelectronics MOSFET N-CH 100V 180A H2PAK-6	 STH33N20 STMicroelectronics	 STH320N4F6-2 MOS STMicroelectronics	 STH36N60DM6 ST/TESLA	 STH2APUR STMicroelectronics	 STH320N4F6-2 STMicroelectronics MOSFET N-CH 40V 200A H2PAK
 STH270N8F7-2 STMicroelectronics MOSFET N-CH 80V 180A H2PAK	 STH315N10F7-6 STMicroelectronics MOSFET N-CH 100V 180A H2PAK-6	 STH320N4F6-6 STMicroelectronics MOSFET N-CH 40V 200A H2PAK-6	 STH310N10F7-2 STMicroelectronics MOSFET N-CH 100V 180A H2PAK-2	 STH275N8F7-6AG STMicroelectronics MOSFET N-CH 80V 180A H2PAK-6	 STH2835-27-H-PJQF-B Shineon
 STH320N4F6 STMicroelectronics	 STH2835-30-H-Q0Q1-B Shineon	 STH300NH02L-6 STMicroelectronics MOSFET N-CH 24V 180A H2PAK	 STH289A STMicroelectronics	 STH360N4F6-2 STMicroelectronics MOSFET N-CH 40V 180A H2PAK-2	 STH310N10F-2 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.



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