



STH150N10F7-2

Manufacturer Part Number	STH150N10F7-2
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STH150N10F7-2
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CH 100V 110A H2PAK-2
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	STH150N10F7-2.pdf
RoHs Status	ROHS3 Compliant



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STH150N10F7-2 - STMicroelectronics.New Original in Stock. Download Linear Technology STH150N10F7-2 datasheet/specifications on AllelcoElec.com.

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Specifications

STH150N10F7-2 Tech Specifications

STH150N10F7-2 - 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	8115 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	117 nC @ 10 V
Supplier Device Package	H2Pak-2	FET Type	N-Channel
Series	DeepGATE™, STripFET™ VII	FET Feature	-
Rds On (Max) @ Id, Vgs	3.9mOhm @ 55A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	250W (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	110A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STH150

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STH150N10F7-2

Product Attribute				
Part Number	STH150N10F7-2	STH175N4F6-6AG	STH13N120K5-2AG	STH160N4LF6-2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)
Rds On (Max) @ Id, Vgs	3.9mOhm @ 55A, 10V	2.4mOhm @ 60A, 10V	690mOhm @ 6A, 10V	2.2mOhm @ 60A, 10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drain to Source Voltage (Vdss)	100 V	40 V	1200 V	40 V
FET Feature	-	-	-	-
Base Product Number	STH150	STH175	STH13	STH160
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Vgs (Max)	±20V	±20V	±30V	±20V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	5V, 10V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Power Dissipation (Max)	250W (Tc)	150W (Tc)	250W (Tc)	150W (Tc)
Supplier Device Package	H2Pak-2	H2Pak-2	H2Pak-2	H2Pak-2
Series	DeepGATE™, STripFET™ VII	Automotive, AEC-Q101, STripFET™ F6	-	DeepGATE™, STripFET™ VI
Vgs(th) (Max) @ Id	4.5V @ 250µA	4.5V @ 250µA	5V @ 100µA	1V @ 250µA (Min)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Current - Continuous Drain (Id) @ 25°C	110A (Tc)	120A (Tc)	12A (Tc)	120A (Tc)
Input Capacitance (Ciss) (Max) @ Vds	8115 pF @ 50 V	7735 pF @ 20 V	1370 pF @ 100 V	8130 pF @ 20 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Gate Charge (Qg) (Max) @ Vgs	117 nC @ 10 V	130 nC @ 10 V	44.2 nC @ 10 V	181 nC @ 10 V

STH150N10F7-2 Datasheet PDF

Download STH150N10F7-2 pdf datasheets and STMicroelectronics documentation for STH150N10F7-2 - STMicroelectronics.

Datasheets

STH150N10F7-2.pdf

PCN Packaging

Mult Dev Inner Box Chg 9/Dec/2021.pdf



















PCN Assembly/Origin

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PCN Design/Specification

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STH15NB50FI STMicroelectronics MOSFET N-CH 500V 10.5A ISOWAT218	STH15810-2 STMicroelectronics	STH160N4LF6-2 MOS STMicroelectronics	STH165N10F4-2 STMicroelectronics	STH13NB60FI STMicroelectronics	STH130N10F3-2 STMicroelectronics MOSFET N-CH 100V 120A H2PAK-2
	 life.augmented	 life.augmented	 life.augmented	 life.augmented	 life.augmented
STH143004.1 STH	STH12N120K5-2 STMicroelectronics MOSFET N-CH 1200V 12A H2PAK-2	STH15810-2,15810 STMicroelectronics	STH140N6F7-2 STMicroelectronics MOSFET N-CH 60V 80A H2PAK-2	STH14808-2 STMicroelectronics	STH145N8F7-2AG STMicroelectronics MOSFET N-CH 80V 90A 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:
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