



## STH180N10F3-2

Manufacturer Part Number	<b>STH180N10F3-2</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STH180N10F3-2
ECAD Model	 PCB Footprint and Symbol
Parts Description	MOSFET N-CH 100V 180A H2PAK-2
Package	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB
Data sheet	<b>STH180N10F3-2.pdf</b>
RoHs Status	 ROHS3 Compliant


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STH180N10F3-2 - STMicroelectronics.New Original in Stock. Download Linear Technology STH180N10F3-2 datasheet/specifications on AllelcoElec.com.

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### Specifications





STH180N10F3-2 Tech Specifications

STH180N10F3-2 - 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	4V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	6665 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	114.6 nC @ 10 V
Supplier Device Package	H2Pak-2	FET Type	N-Channel
Series	STripFET™ III	FET Feature	-
Rds On (Max) @ Id, Vgs	4.5mOhm @ 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 <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	180A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STH180

### Parts with Similar Specifications

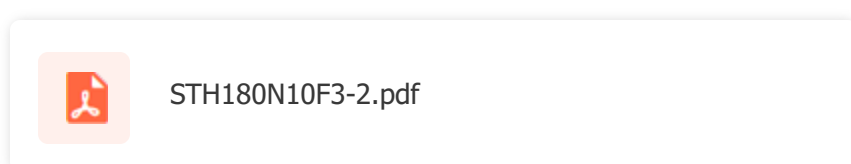
The three parts on the right have similar specifications to STMicroelectronics STH180N10F3-2

Product Attribute	 NO PICTURE	 life.augmented	 life.augmented	 life.augmented
Part Number	STH180N10F3-2	STH240N10F7-2	STH15NB50FI	STH180N4F6-2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Vgs (Max)	±20V	±20V	±30V	±20V
Series	STripFET™ III	STripFET™	PowerMESH™	STripFET™ F6
Gate Charge (Qg) (Max) @ Vgs	114.6 nC @ 10 V	160 nC @ 10 V	80 nC @ 10 V	130 nC @ 10 V
Supplier Device Package	H2Pak-2	H2Pak-2	ISOWATT-218	H2Pak-2
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Rds On (Max) @ Id, Vgs	4.5mOhm @ 60A, 10V	2.5mOhm @ 60A, 10V	360mOhm @ 7.5A, 10V	2.4mOhm @ 60A, 10V
Mounting Type	Surface Mount	Surface Mount	Through Hole	Surface Mount
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tube	Tape & Reel (TR)
FET Feature	-	-	-	-
Current - Continuous Drain (Id) @ 25°C	180A (Tc)	180A (Tc)	10.5A (Tc)	120A (Tc)
Input Capacitance (Ciss) (Max) @ Vds	6665 pF @ 25 V	11550 pF @ 25 V	3400 pF @ 25 V	7735 pF @ 25 V
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	150°C (TJ)	-55°C ~ 175°C (TJ)
Base Product Number	STH180	STH240	STH15N	STH180
Package / Case	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	ISOWATT-218-3	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB
Vgs(th) (Max) @ Id	4V @ 250µA	4.5V @ 250µA	5V @ 250µA	4.5V @ 250µA
Power Dissipation (Max)	315W (Tc)	300W (Tc)	80W (Tc)	190W (Tc)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drain to Source Voltage (Vdss)	100 V	100 V	500 V	40 V

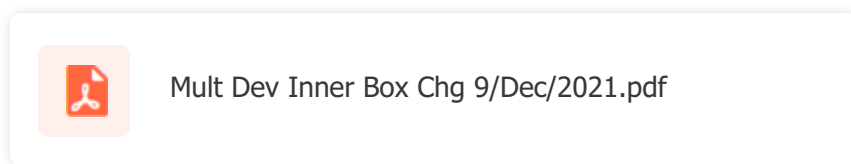
### STH180N10F3-2 Datasheet PDF

Download STH180N10F3-2 pdf datasheets and STMicroelectronics documentation for STH180N10F3-2 - STMicroelectronics.

#### Datasheets



#### PCN Packaging





















#### PCN Design/Specification



## Customers Also Interested in

### Recommended Products

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<b>STH17808-2</b> STMicroelectronics	<b>STH160N4LF6-2 MOS</b> STMicroelectronics	<b>STH18NB40FI</b> STMRC	<b>STH165N10F4-2</b> STMicroelectronics	<b>STH240N10F7-2</b> STMicroelectronics MOSFET N-CH 100V 180A H2PAK-2	<b>STH15810-2,15810</b> STMicroelectronics
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<b>STH15NB50FI</b> STMicroelectronics MOSFET N-CH 500V 10.5A ISOWAT218	<b>STH180N4F6-2</b> STMicroelectronics MOSFET N-CH 40V 120A H2PAK-2	<b>STH160N4LF6-2</b> STMicroelectronics MOSFET N-CH 40V 120A H2PAK-2	<b>STH175N4F6-6AG</b> STMicroelectronics MOSFET N-CH 40V 120A H2PAK-2	<b>STH2007TBR</b> STMicroelectronics	<b>STH230NF02V-2 MOS</b> STMicroelectronics
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<b>STH240N10F7-6</b> STMicroelectronics MOSFET N-CH 100V 180A H2PAK-6	<b>STH185N10F3-2</b> STMicroelectronics MOSFET N-CH 100V 180A H2PAK-2	<b>STH175N4F6-2AG</b> STMicroelectronics MOSFET N-CH 40V 120A H2PAK-2	<b>STH210N75F6-2</b> STMicroelectronics MOSFET N-CH 75V 180A H2PAK-2	<b>STH180N10F3</b> STMicroelectronics	<b>STH15810-2</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.

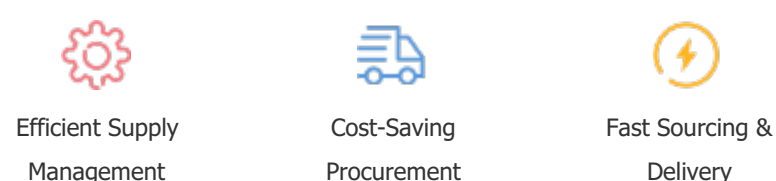
### Payment Support

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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