



Image may be representation.
See specifications for product details.



STD15NF10T4

Manufacturer Part Number	STD15NF10T4
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STD15NF10T4
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 100V 23A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	STD15NF10.pdf
RoHs Status	ROHS3 Compliant

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STD15NF10T4 - STMicroelectronics.New Original in Stock. Download Linear Technology STD15NF10T4 datasheet/specifications on AllelcoElec.com.
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Specifications

STD15NF10T4 Tech Specifications

STD15NF10T4 - 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	870 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	40 nC @ 10 V
Supplier Device Package	DPAK	FET Type	N-Channel
Series	STripFET™ II	FET Feature	-
Rds On (Max) @ Id, Vgs	65mOhm @ 12A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	70W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	23A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STD15

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STD15NF10T4

Product Attribute				
Part Number	STD15NF10T4	STD150NH02LT4	STD15N50M2AG	STD15N60M2-EP
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Feature	-	-	-	-
Drive Voltage (Max Rds On, Min Rds On)	10V	5V, 10V	10V	10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Supplier Device Package	DPAK	DPAK	D-PAK (TO-252)	DPAK
Rds On (Max) @ Id, Vgs	65mOhm @ 12A, 10V	3.5mOhm @ 75A, 10V	380mOhm @ 5A, 10V	378mOhm @ 5.5A, 10V
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-252-3, DPak (2 Leads + Tab), SC-63
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Gate Charge (Qg) (Max) @ Vgs	40 nC @ 10 V	93 nC @ 10 V	13 nC @ 10 V	17 nC @ 10 V
Base Product Number	STD15	STD15	STD15	STD15
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Current - Continuous Drain (Id) @ 25°C	23A (Tc)	150A (Tc)	10A (Tc)	11A (Tc)
Drain to Source Voltage (Vdss)	100 V	24 V	500 V	600 V
Input Capacitance (Ciss) (Max) @ Vds	870 pF @ 25 V	4450 pF @ 15 V	530 pF @ 100 V	590 pF @ 100 V
Vgs(th) (Max) @ Id	4V @ 250µA	1.8V @ 250µA	4V @ 250µA	4V @ 250µA
Power Dissipation (Max)	70W (Tc)	125W (Tc)	85W (Tc)	110W (Tc)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Vgs (Max)	±20V	±20V	±30V	±25V
Series	STripFET™ II	STripFET™ III	Automotive, AEC-Q101, MDmesh™ M2	MDmesh™ M2-EP

STD15NF10T4 Datasheet PDF

Download STD15NF10T4 pdf datasheets and STMicroelectronics documentation for STD15NF10T4 - STMicroelectronics.

Datasheets

[STD15NF10.pdf](#)

PCN Packaging

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

[Reel Design Change 22/Aug/2022.pdf](#)

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Recommended Products



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STD15N50M2AG
STMicroelectronics
MOSFET N-CHANNEL 500V 10A DPAK



STD15N60M2-EP
STMicroelectronics
MOSFET N-CH 600V 11A DPAK



STD155N3H6
STMicroelectronics
MOSFET N-CH 30V 80A DPAK



STD160
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STD165GK18
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MOSFET N CH 650V 11A DPAK



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MOSFET N-CH 30V 80A DPAK



STD15A
STD



STD150NH3LLH6
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

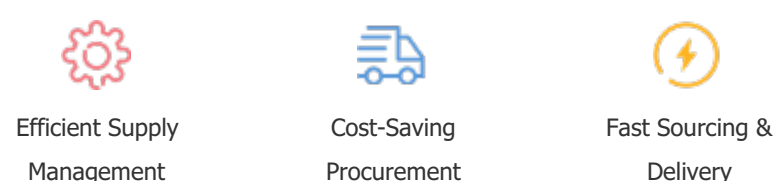
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

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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