



Image may be representation.
See specifications for product details.



STD25N10F7

Manufacturer Part Number	STD25N10F7
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STD25N10F7
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 100V 25A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	STx25N10F7.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STD25N10F7 - STMicroelectronics.New Original in Stock. Download Linear Technology STD25N10F7 datasheet/specifications on AllelcoElec.com.
Request a quote for STD25N10F7, please send us email: info@allelco.com

Specifications

STD25N10F7 Tech Specifications
STD25N10F7 - 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	920 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	14 nC @ 10 V
Supplier Device Package	DPAK	FET Type	N-Channel
Series	DeepGATE™, STripFET™ VII	FET Feature	-
Rds On (Max) @ Id, Vgs	35mOhm @ 12.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	40W (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	25A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STD25

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STD25N10F7

Product Attribute				
Part Number	STD25N10F7	STD25NF10T4	STD25NF10LT4	STD25NF10LA
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Rds On (Max) @ Id, Vgs	35mOhm @ 12.5A, 10V	38mOhm @ 12.5A, 10V	35mOhm @ 12.5A, 10V	35mOhm @ 12.5A, 10V
Gate Charge (Qg) (Max) @ Vgs	14 nC @ 10 V	55 nC @ 10 V	52 nC @ 5 V	52 nC @ 5 V
Base Product Number	STD25	STD25	STD25	STD25
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
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
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	4.5V, 10V	4.5V, 10V
Drain to Source Voltage (Vdss)	100 V	100 V	100 V	100 V
Vgs(th) (Max) @ Id	4.5V @ 250µA	4V @ 250µA	2.5V @ 250µA	2.5V @ 250µA
FET Feature	-	-	-	-
Supplier Device Package	DPAK	DPAK	DPAK	DPAK
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	DeepGATE™, STripFET™ VII	STripFET™ II	STripFET™ II	STripFET™ II
Power Dissipation (Max)	40W (Tc)	100W (Tc)	100W (Tc)	100W (Tc)
Vgs (Max)	±20V	±20V	±16V	±16V
Input Capacitance (Ciss) (Max) @ Vds	920 pF @ 50 V	1550 pF @ 25 V	1710 pF @ 25 V	1710 pF @ 25 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Current - Continuous Drain (Id) @ 25°C	25A (Tc)	25A (Tc)	25A (Tc)	25A (Tc)

STD25N10F7 Datasheet PDF

Download STD25N10F7 pdf datasheets and STMicroelectronics documentation for STD25N10F7 - STMicroelectronics.

Datasheets

[STx25N10F7.pdf](#)



















PCN Packaging

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

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

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STD25N10 STMicroelectronics	STD20NF20T4 STMicroelectronics	STD2596-ADJ SEMTRON	STD25NF10LA STMicroelectronics MOSFET N-CH 100V 25A DPAK	STD25NF10 STMicroelectronics	STD25NE03 STMicroelectronics
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STD20NF20 STMicroelectronics MOSFET N-CH 200V 18A DPAK	STD20NF20 MOS STMicroelectronics	STD2306E SAMHOP	STD22NM20NT4 STMicroelectronics MOSFET N-CH 200V 22A DPAK	STD20NF10T4 STMicroelectronics MOSFET N CH 100V 25A DPAK	STD20P07LT4G AMI Semiconductor/onsemi

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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-  Efficient Supply Management
-  Cost-Saving Procurement
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Contact us if you have any questions.

-  Phone
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Certifications & Memberships



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