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See specifications for product details.



STP140N8F7

Manufacturer Part Number	STP140N8F7
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP140N8F7
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 80V 90A TO220
Package	TO-220-3
Data sheet	STP140N8F7.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP140N8F7 - STMicroelectronics. New Original in Stock. Download Linear Technology STP140N8F7 datasheet/specifications on AllelcoElec.com.
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Specifications

STP140N8F7 Tech Specifications

STP140N8F7 - 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	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	6340 pF @ 40 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	96 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	DeepGATE™, STripFET™ VII	FET Feature	-
Rds On (Max) @ Id, Vgs	4.3mOhm @ 45A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	200W (Tc)	Drain to Source Voltage (Vdss)	80 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	90A (Tc)
Package	Tube	Base Product Number	STP140

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP140N8F7

Product Attribute				
Part Number	STP140N8F7	STP13NM60ND	STP13NM60N	STP13NK60Z
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Input Capacitance (Ciss) (Max) @ Vds	6340 pF @ 40 V	845 pF @ 50 V	790 pF @ 50 V	2030 pF @ 25 V
Base Product Number	STP140	STP13	STP13	STP13
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Tube	Tube	Tube
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
Rds On (Max) @ Id, Vgs	4.3mOhm @ 45A, 10V	380mOhm @ 5.5A, 10V	360mOhm @ 5.5A, 10V	550mOhm @ 4.5A, 10V
Series	DeepGATE™, STripFET™ VII	FDmesh™ II	MDmesh™ II	SuperMESH™
Power Dissipation (Max)	200W (Tc)	109W (Tc)	90W (Tc)	150W (Tc)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Gate Charge (Qg) (Max) @ Vgs	96 nC @ 10 V	24.5 nC @ 10 V	30 nC @ 10 V	92 nC @ 10 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Vgs (Max)	±20V	±25V	±25V	±30V
FET Feature	-	-	-	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Current - Continuous Drain (Id) @ 25°C	90A (Tc)	11A (Tc)	11A (Tc)	13A (Tc)
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Drain to Source Voltage (Vdss)	80 V	600 V	600 V	600 V
Vgs(th) (Max) @ Id	4.5V @ 250µA	5V @ 250µA	4V @ 250µA	4.5V @ 100µA
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)

STP140N8F7 Datasheet PDF

Download STP140N8F7 pdf datasheets and STMicroelectronics documentation for STP140N8F7 - STMicroelectronics.

Datasheets

[STP140N8F7.pdf](#)



















PCN Design/Specification

[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

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STP140NF75 MOS STMicroelectronics	STP13NM60ND STMicroelectronics MOSFET N-CH 600V 11A TO220	STP13NM60N STMicroelectronics MOSFET N-CH 600V 11A TO220-3	STP13NK60Z STMicroelectronics MOSFET N-CH 600V 13A TO220AB	STP13NM50N STMicroelectronics MOSFET N-CH 500V 12A TO220AB	STP140NF55 STMicroelectronics MOSFET N-CH 55V 80A TO220AB
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STP13NK60ZFP STMicroelectronics MOSFET N-CH 600V 13A TO220FP	STP140N6F7 STMicroelectronics MOSFET N-CH 60V 80A TO220	STP141NF55 STMicroelectronics MOSFET N-CH 55V 80A TO220AB	STP13NK50Z STMicroelectronics MOSFET N-CH 500V 11A TO220AB	STP141NF55 MOS STMicroelectronics	STP140N10F4 STMicroelectronics
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STP140NF55 MOS STMicroelectronics	STP1413 STANSON	STP140NF75 STMicroelectronics MOSFET N-CH 75V 120A TO220AB	STP13N95K3 STMicroelectronics MOSFET N-CH 950V 10A TO220	STP1433 STANSON	STP13NM70N 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

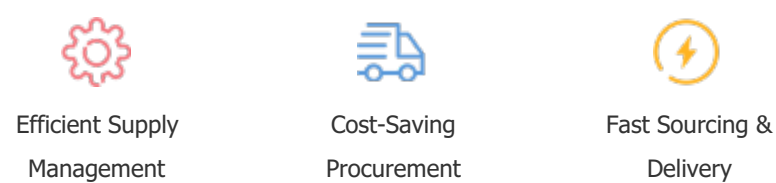
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

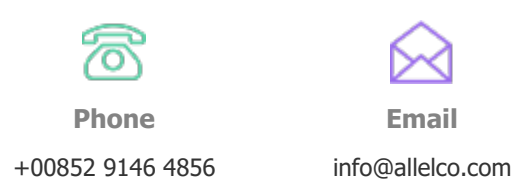
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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