

Image may be representation.
See specifications for product details.



STP10P6F6

Manufacturer Part Number	STP10P6F6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP10P6F6
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET P-CH 60V 10A TO220
Package	TO-220-3
Data sheet	STx10P6F6.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP10P6F6 - STMicroelectronics.New Original in Stock. Download Linear Technology STP10P6F6 datasheet/specifications on AllelcoElec.com.
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Specifications

STP10P6F6 Tech Specifications

STP10P6F6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	175°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	340 pF @ 48 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	6.4 nC @ 10 V
Supplier Device Package	TO-220	FET Type	P-Channel
Series	DeepGATE™, STripFET™ VI	FET Feature	-
Rds On (Max) @ Id, Vgs	160mOhm @ 5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	30W (Tc)	Drain to Source Voltage (Vdss)	60 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	10A (Tc)
Package	Tube	Base Product Number	STP10

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP10P6F6

Product Attribute				
Part Number	STP10P6F6	STP110N10F7	STP10NM60ND	STP110N8F7
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Vgs (Max)	±20V	±20V	±25V	±20V
FET Type	P-Channel	N-Channel	N-Channel	N-Channel
FET Feature	-	-	-	-
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
Gate Charge (Qg) (Max) @ Vgs	6.4 nC @ 10 V	60 nC @ 10 V	20 nC @ 10 V	46.8 nC @ 10 V
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	5V @ 250µA	4.5V @ 250µA
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Rds On (Max) @ Id, Vgs	160mOhm @ 5A, 10V	7mOhm @ 55A, 10V	600mOhm @ 4A, 10V	7.5mOhm @ 40A, 10V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Base Product Number	STP10	STP110	STP10	STP110
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Power Dissipation (Max)	30W (Tc)	150W (Tc)	70W (Tc)	170W (Tc)
Input Capacitance (Ciss) (Max) @ Vds	340 pF @ 48 V	5500 pF @ 50 V	577 pF @ 50 V	3435 pF @ 40 V
Drain to Source Voltage (Vdss)	60 V	100 V	600 V	80 V
Series	DeepGATE™, STripFET™ VI	DeepGATE™, STripFET™ VII	FDmesh™ II	STripFET™
Current - Continuous Drain (Id) @ 25°C	10A (Tc)	110A (Tc)	8A (Tc)	80A (Tc)
Operating Temperature	175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Tube	Tube	Tube

STP10P6F6 Datasheet PDF

Download STP10P6F6 pdf datasheets and STMicroelectronics documentation for STP10P6F6 - STMicroelectronics.

Datasheets

[STx10P6F6.pdf](#)

PCN Design/Specification

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

PCN Assembly/Origin

Mult Dev Site Closure 13/Feb/2020.pdf

PCN Packaging



















Traceability 06/Mar/2017.pdf

PCN Obsolescence/ EOL

STF STP 11-Nov-2022.pdf

Customers Also Interested in

Recommended Products

					
STP110N10F7 STMicroelectronics MOSFET N-CH 100V 110A TO-220	STP110N7F6 MOS STMicroelectronics	STP10NM60ND STMicroelectronics MOSFET N-CH 600V 8A TO220	STP110N8F7 STMicroelectronics MOSFET N-CH 80V 80A TO220	STP10NK80Z STMicroelectronics MOSFET N-CH 800V 9A TO220AB	STP10NM65N STMicroelectronics MOSFET N-CH 650V 9A TO220AB
					
STP10NM50N STMicroelectronics MOSFET N-CH 500V 7A TO220	STP10NK80ZN STMicroelectronics	STP10NK70ZFP STMicroelectronics MOSFET N-CH 700V 8.6A TO220FP	STP110N8F6 STMicroelectronics MOSFET N-CH 80V 110A TO220	STP110N55F6 STMicroelectronics MOSFET N-CH 55V 110A TO220	STP10NK80Z MOS STMicroelectronics
					
STP10NM60N STMicroelectronics MOSFET N-CH 600V 10A TO220AB	STP10NK80ZFP STMicroelectronics MOSFET N-CH 800V 9A TO220FP	STP11N52K3 STMicroelectronics MOSFET N-CH 525V 10A TO220	STP110N10F7 MOS STMicroelectronics	STP10NM60N MOS STMicroelectronics	STP110N7F6 STMicroelectronics MOSFET N-CHANNEL 68V 110A TO220

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 -

 Efficient Supply Management	 Cost-Saving Procurement	 Fast Sourcing & Delivery
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Contact us if you have any questions.

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Certifications & Memberships



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