

Image may be representation.  
See specifications for product details.



## STGP10H60DF

Manufacturer Part Number	<b>STGP10H60DF</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STGP10H60DF
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IGBT 600V 20A 115W TO220
Package	TO-220-3
Data sheet	<b>STGx10H60DF.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STGP10H60DF - STMicroelectronics.New Original in Stock. Download Linear Technology STGP10H60DF datasheet/specifications on AllelcoElec.com.  
Request a quote for STGP10H60DF, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STGP10H60DF Tech Specifications

STGP10H60DF - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	TO-220-3
Voltage - Collector Emitter Breakdown (Max)	600 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	1.95V @ 15V, 10A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	400V, 10A, 100hm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	19.5ns/103ns	Input Type	Standard
Switching Energy	83µJ (on), 140µJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	TO-220	Gate Charge	57 nC
Series	-	Current - Collector Pulsed (Icm)	40 A
Reverse Recovery Time (trr)	107 ns	Current - Collector (Ic) (Max)	20 A
Power - Max	115 W	Base Product Number	STGP10

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STGP10H60DF

Product Attribute				
Part Number	STGP10H60DF	STGP12NB60KD	STGP10NB60S	STGP14NC60KD
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Voltage - Collector Emitter Breakdown (Max)	600 V	600 V	600 V	600 V
Reverse Recovery Time (trr)	107 ns	80 ns	-	37 ns
Current - Collector (Ic) (Max)	20 A	30 A	29 A	25 A
Vce(on) (Max) @ Vge, Ic	1.95V @ 15V, 10A	2.8V @ 15V, 12A	1.75V @ 15V, 10A	2.5V @ 15V, 7A
Switching Energy	83µJ (on), 140µJ (off)	258µJ (off)	600µJ (on), 5mJ (off)	82µJ (on), 155µJ (off)
Gate Charge	57 nC	54 nC	33 nC	34.4 nC
Power - Max	115 W	125 W	80 W	80 W
Test Condition	400V, 10A, 100hm, 15V	480V, 12A, 100hm, 15V	480V, 10A, 1kOhm, 15V	390V, 7A, 100hm, 15V
Base Product Number	STGP10	STGP12	STGP10	STGP14
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
IGBT Type	Trench Field Stop	-	-	-
Td (on/off) @ 25°C	19.5ns/103ns	25ns/96ns	700ns/1.2µs	22.5ns/116ns
Package	Tube	Tube	Tube	Tube
Current - Collector Pulsed (Icm)	40 A	60 A	80 A	50 A
Series	-	PowerMESH™	PowerMESH™	PowerMESH™
Input Type	Standard	Standard	Standard	Standard
Operating Temperature	-55°C ~ 175°C (TJ)	150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)

### STGP10H60DF Datasheet PDF

Download STGP10H60DF pdf datasheets and STMicroelectronics documentation for STGP10H60DF - STMicroelectronics.

#### Datasheets

[STGx10H60DF.pdf](#)

#### PCN Design/Specification


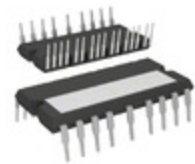

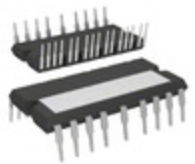
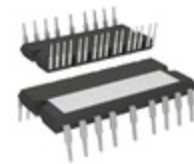








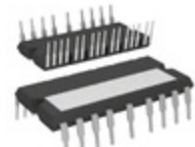




[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

#### PCN Assembly/Origin

[PCN Assembly/Origin](#)

## Customers Also Interested in

### Recommended Products

					
<b>STGIPS20C60</b> STMicroelectronics MOD IPM SLLIMM 20A 600V 25SDIP	<b>STGIPS30C60T-H</b> STMicroelectronics MOD IPM SLLIMM 30A 600V 25SDIP	<b>STGP12NB60KD</b> STMicroelectronics IGBT 600V 30A 125W TO220	<b>STGIPS20C60-H</b> STMicroelectronics MOD IPM SLLIMM 20A 600V 25SDIP	<b>STGIPS30C60-H</b> STMicroelectronics MOD IPM SLLIMM 30A 600V 25SDIP	<b>STGP10NB60S</b> STMicroelectronics IGBT 600V 29A 80W TO220
					
<b>STGIPS35K60L1</b> STMicroelectronics MODULE IPM SLLIMM SDIP-22L	<b>STGIPS20K60</b> STMicroelectronics IGBT IPM MODULE 17A 600V 25SDIP	<b>STGP14NC60KD</b> STMicroelectronics IGBT 600V 25A 80W TO220	<b>STGP10NC60HD</b> STMicroelectronics IGBT 600V 20A 65W TO220	<b>STGP10M65DF2</b> STMicroelectronics IGBT 650V 10A TO-220AB	<b>STGP10NC60KD</b> STMicroelectronics IGBT 600V 20A 65W TO220
					
<b>STGP10NB60SFP</b> STMicroelectronics IGBT 600V 23A 25W TO220	<b>STGIPS30C60</b> STMicroelectronics IGBT IPM MODULE 30A 600V SDIP-25	<b>STGP15H60DF</b> STMicroelectronics IGBT 600V 30A 115W TO220	<b>STGP10NB37LZ</b> STMicroelectronics IGBT 440V 20A 125W TO220	<b>STGIPS20C60T-H</b> STMicroelectronics MOD IPM SLLIMM 3PHASE 25SDIP	<b>STGP10NB60SD</b> STMicroelectronics IGBT 600V 29A 80W 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

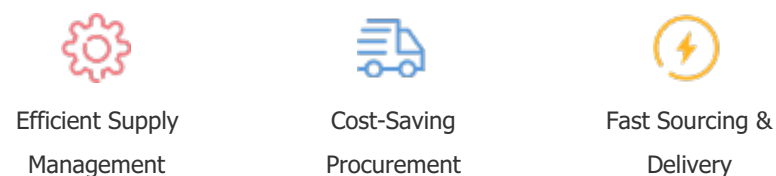
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### Payment Support

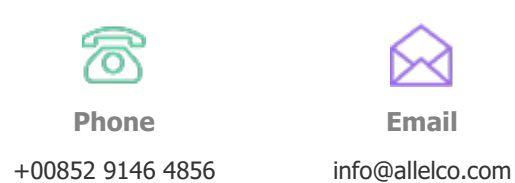
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



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