

Image may be representation.  
See specifications for product details.



## STGF10NC60KD

Manufacturer Part Number	<b>STGF10NC60KD</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STGF10NC60KD
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IGBT 600V 9A 25W TO220FP
Package	TO-220-3 Full Pack
Data sheet	<b>STGx10NC60KD.pdf</b> <b>STGx10NC60KD.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STGF10NC60KD - STMicroelectronics.New Original in Stock. Download Linear Technology STGF10NC60KD datasheet/specifications on AllelcoElec.com.  
Request a quote for STGF10NC60KD, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STGF10NC60KD Tech Specifications

STGF10NC60KD - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	TO-220-3 Full Pack
Voltage - Collector Emitter Breakdown (Max)	600 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2.5V @ 15V, 5A	Operating Temperature	-55°C ~ 150°C (TJ)
Test Condition	390V, 5A, 100hm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	17ns/72ns	Input Type	Standard
Switching Energy	55µJ (on), 85µJ (off)	IGBT Type	-
Supplier Device Package	TO-220FP	Gate Charge	19 nC
Series	PowerMESH™	Current - Collector Pulsed (Icm)	30 A
Reverse Recovery Time (trr)	22 ns	Current - Collector (Ic) (Max)	9 A
Power - Max	25 W	Base Product Number	STGF10

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STGF10NC60KD

Product Attribute				
Part Number	STGF10NC60KD	STGF19NC60KD	STGF10H60DF	STGF20H60DF
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
IGBT Type	-	-	Trench Field Stop	Trench Field Stop
Current - Collector Pulsed (Icm)	30 A	75 A	40 A	80 A
Input Type	Standard	Standard	Standard	Standard
Power - Max	25 W	32 W	30 W	37 W
Current - Collector (Ic) (Max)	9 A	16 A	20 A	40 A
Reverse Recovery Time (trr)	22 ns	31 ns	107 ns	90 ns
Switching Energy	55µJ (on), 85µJ (off)	165µJ (on), 255µJ (off)	83µJ (on), 140µJ (off)	209µJ (on), 261µJ (off)
Td (on/off) @ 25°C	17ns/72ns	30ns/105ns	19.5ns/103ns	42.5ns/177ns
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
Gate Charge	19 nC	55 nC	57 nC	115 nC
Package	Tube	Tube	Tube	Tube
Vce(on) (Max) @ Vge, Ic	2.5V @ 15V, 5A	2.75V @ 15V, 12A	1.95V @ 15V, 10A	2V @ 15V, 20A
Voltage - Collector Emitter Breakdown (Max)	600 V	600 V	600 V	600 V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Base Product Number	STGF10	STGF19	STGF10	STGF20
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Series	PowerMESH™	PowerMESH™	-	-
Supplier Device Package	TO-220FP	TO-220FP	TO-220FP	TO-220FP
Test Condition	390V, 5A, 100hm, 15V	480V, 12A, 100hm, 15V	400V, 10A, 100hm, 15V	400V, 20A, 100hm, 15V

### STGF10NC60KD Datasheet PDF

Download STGF10NC60KD pdf datasheets and STMicroelectronics documentation for STGF10NC60KD - STMicroelectronics.

#### Datasheets

[STGx10NC60KD.pdf](#)

#### PCN Assembly/Origin

[IPG/14/8597 17/Jul/2014.pdf](#)

#### HTML Datasheet

## Customers Also Interested in

### Recommended Products



**STGF19NC60KD**  
STMicroelectronics  
IGBT 600V 16A 32W TO220FP



**STGF10H60DF**  
STMicroelectronics  
IGBT 600V 20A 30W TO220FP



**STGF20H60DF**  
STMicroelectronics  
IGBT 600V 40A 37W TO220FP



**STGF10NC60HD**  
STMicroelectronics  
IGBT 600V 9A 24W TO220FP



**STGF10NB60SD**  
STMicroelectronics  
IGBT 600V 23A 25W TO220FP



**STGD8NC60KDT4**  
STMicroelectronics  
IGBT 600V 15A 62W DPAK



**STGF15M65DF2**  
STMicroelectronics  
TRENCH GATE FIELD-STOP IGBT M SE



**STGF19NC60HD**  
STMicroelectronics  
IGBT 600V 16A 32W TO220FP



**STGF19NC60WD**  
STMicroelectronics  
IGBT 600V 14A 32W TO220FP



**STGF10M65DF2**  
STMicroelectronics  
IGBT TRENCH 650V 20A TO220FP



**STGF20M65DF2**  
STMicroelectronics  
IGBT TRENCH 650V 40A TO220FP



**STGD8NC60KT4**  
STMicroelectronics  
IGBT 600V 15A 62W DPAK



**STGE50NC60WD**  
STMicroelectronics  
IGBT MOD 600V 100A 260W ISOTOP



**STGE50NC60VD**  
STMicroelectronics  
IGBT MODULE 600V 90A 260W ISOTOP



**STGF15H60DF**  
STMicroelectronics  
IGBT 600V 30A 30W TO220FP



**STGE50NB60HD**  
STMicroelectronics  
IGBT MOD 600V 100A 300W ISOTOP



**STGF14NC60KD**  
STMicroelectronics  
IGBT 600V 11A 28W TO220FP



**STGF20NB60S**  
STMicroelectronics  
IGBT 600V 24A 40W TO220FP

## 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

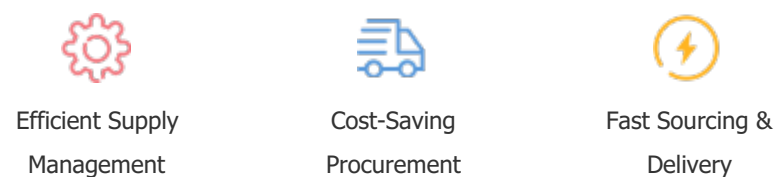
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

### Payment Support

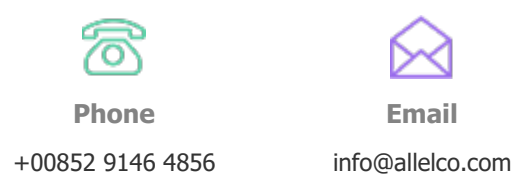
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



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### Contact us

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