



Image may be representation.  
See specifications for product details.



## STGW20V60DF

Manufacturer Part Number	<b>STGW20V60DF</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STGW20V60DF
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IGBT 600V 40A 167W TO247
Package	TO-247-3
Data sheet	<b>STGx(x)20V60DF.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STGW20V60DF - STMicroelectronics. New Original in Stock. Download Linear Technology STGW20V60DF datasheet/specifications on AllelcoElec.com. Request a quote for STGW20V60DF, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STGW20V60DF Tech Specifications

STGW20V60DF - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	TO-247-3
Voltage - Collector Emitter Breakdown (Max)	600 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2.2V @ 15V, 20A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	400V, 20A, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	38ns/149ns	Input Type	Standard
Switching Energy	200µJ (on), 130µJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	TO-247-3	Gate Charge	116 nC
Series	-	Current - Collector Pulsed (Icm)	80 A
Reverse Recovery Time (trr)	40 ns	Current - Collector (Ic) (Max)	40 A
Power - Max	167 W	Base Product Number	STGW20

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STGW20V60DF

Product Attribute				
Part Number	STGW20V60DF	STGW30H60DFB	STGW20NC60V	STGW30N90D
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Package	Tube	Tube	Tube	Tube
Input Type	Standard	Standard	Standard	Standard
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Test Condition	400V, 20A, 15V	400V, 30A, 100hm, 15V	390V, 20A, 3.30hm, 15V	900V, 20A, 100hm, 15V
Vce(on) (Max) @ Vge, Ic	2.2V @ 15V, 20A	2V @ 15V, 30A	2.5V @ 15V, 20A	2.75V @ 15V, 20A
Base Product Number	STGW20	STGW30	STGW20	STGW30
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Switching Energy	200µJ (on), 130µJ (off)	383µJ (on), 293µJ (off)	220µJ (on), 330µJ (off)	1.66mJ (on), 4.44mJ (off)
Td (on/off) @ 25°C	38ns/149ns	37ns/146ns	31ns/100ns	29ns/275ns
Current - Collector Pulsed (Icm)	80 A	120 A	100 A	135 A
Power - Max	167 W	260 W	200 W	220 W
Supplier Device Package	TO-247-3	TO-247	TO-247-3	TO-247-3
Voltage - Collector Emitter Breakdown (Max)	600 V	600 V	600 V	900 V
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Series	-	-	PowerMESH™	PowerMESH™
Current - Collector (Ic) (Max)	40 A	60 A	60 A	60 A
Reverse Recovery Time (trr)	40 ns	53 ns	-	152 ns
IGBT Type	Trench Field Stop	Trench Field Stop	-	-
Gate Charge	116 nC	149 nC	100 nC	110 nC

### STGW20V60DF Datasheet PDF

Download STGW20V60DF pdf datasheets and STMicroelectronics documentation for STGW20V60DF - STMicroelectronics.

#### Datasheets

[STGx\(x\)20V60DF.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



**STGW30H60DFB**  
STMicroelectronics  
IGBT 600V 60A 260W TO247



**STGW20NC60V**  
STMicroelectronics  
IGBT 600V 60A 200W TO247



**STGW30N90D**  
STMicroelectronics  
IGBT 900V 60A 220W TO247



**STGW20H60DF**  
STMicroelectronics  
IGBT 600V 40A 167W TO247



**STGW28IH125DF**  
STMicroelectronics  
IGBT 1250V 60A 375W TO-247



**STGW20NB60HD**  
STMicroelectronics



**STGW30H60DLFB**  
STMicroelectronics  
IGBT HB 600V 30A HS TO247



**STGW25M120DF3**  
STMicroelectronics  
IGBT 1200V 50A 375W



**STGW19NC60W**  
STMicroelectronics  
IGBT 600V 42A 140W TO247



**STGW19NC60HD**  
STMicroelectronics  
IGBT 600V 42A 140W TO247



**STGW19NC60H**  
STMicroelectronics  
IGBT 600V 42A 140W TO-247



**STGW25H120F2**  
STMicroelectronics  
IGBT H-SERIES 1200V 25A TO-247



**STGW30H65FB**  
STMicroelectronics  
IGBT 650V 30A 260W TO-247



**STGW20H65FB**  
STMicroelectronics  
IGBT 650V 40A 168W TO247



**STGW20NC60VD**  
STMicroelectronics  
IGBT 600V 60A 200W TO247



**STGW19NC60WD**  
STMicroelectronics  
IGBT 600V 42A 125W TO247



**STGW20NB60KD**  
STMicroelectronics  
IGBT 600V 50A 170W TO247



**STGW25H120DF**  
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 -

- Efficient Supply Management
- Cost-Saving Procurement
- Fast Sourcing & Delivery

Contact us if you have any questions.

- Phone  
+00852 9146 4856
- Email  
info@allelco.com

### Certifications & Memberships



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### Contact us

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