



Image may be representation.  
See specifications for product details.



## STGWA25M120DF3

Manufacturer Part Number	<b>STGWA25M120DF3</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STGWA25M120DF3
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IGBT 1200V 50A 375W TO247
Package	TO-247-3
Data sheet	<b>STGW(A)25M120DF3.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STGWA25M120DF3 - STMicroelectronics.New Original in Stock. Download Linear Technology STGWA25M120DF3 datasheet/specifications on AllelcoElec.com.  
Request a quote for STGWA25M120DF3, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STGWA25M120DF3 Tech Specifications  
STGWA25M120DF3 - 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)	1200 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2.3V @ 15V, 25A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	600V, 25A, 150hm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	28ns/150ns	Input Type	Standard
Switching Energy	850µJ (on), 1.3mJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	TO-247 Long Leads	Gate Charge	85 nC
Series	-	Current - Collector Pulsed (Icm)	100 A
Reverse Recovery Time (trr)	265 ns	Current - Collector (Ic) (Max)	50 A
Power - Max	375 W	Base Product Number	STGWA25

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STGWA25M120DF3

Product Attribute				
Part Number	STGWA25M120DF3	STGWA19NC60HD	STGW80H65DFB	STGWA30H65FB
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Base Product Number	STGWA25	STGWA19	STGW80	STGWA30
Series	-	PowerMESH™	-	HB
Reverse Recovery Time (trr)	265 ns	31 ns	85 ns	-
Voltage - Collector Emitter Breakdown (Max)	1200 V	600 V	650 V	650 V
Input Type	Standard	Standard	Standard	Standard
Power - Max	375 W	208 W	469 W	260 W
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Vce(on) (Max) @ Vge, Ic	2.3V @ 15V, 25A	2.5V @ 15V, 12A	2V @ 15V, 80A	2V @ 15V, 30A
IGBT Type	Trench Field Stop	-	Trench Field Stop	Trench Field Stop
Gate Charge	85 nC	53 nC	414 nC	149 nC
Switching Energy	850µJ (on), 1.3mJ (off)	85µJ (on), 189µJ (off)	2.1mJ (on), 1.5mJ (off)	151mJ (on), 293mJ (off)
Supplier Device Package	TO-247 Long Leads	TO-247 Long Leads	TO-247	TO-247 Long Leads
Td (on/off) @ 25°C	28ns/150ns	25ns/97ns	84ns/280ns	37ns/146ns
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Current - Collector Pulsed (Icm)	100 A	60 A	240 A	120 A
Test Condition	600V, 25A, 150hm, 15V	390V, 12A, 100hm, 15V	400V, 80A, 100hm, 15V	400V, 30A, 100hm, 15V
Current - Collector (Ic) (Max)	50 A	52 A	120 A	60 A
Package	Tube	Tube	Tube	Tube
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole

### STGWA25M120DF3 Datasheet PDF

Download STGWA25M120DF3 pdf datasheets and STMicroelectronics documentation for STGWA25M120DF3 - STMicroelectronics.

#### Datasheets

[STGW\(A\)25M120DF3.pdf](#)

### Customers Also Interested in

#### Recommended Products



**STGWA19NC60HD**  
STMicroelectronics  
IGBT 600V 52A 208W TO247



**STGW80H65DFB**  
STMicroelectronics  
IGBT 650V 120A 469W TO-247



**STGWA30H65FB**  
STMicroelectronics  
IGBT



**STGWA40H120DF2**  
STMicroelectronics  
TRENCH GATE IGBT TO247 PKG



**STGWA40H65DFB**  
STMicroelectronics  
IGBT TRENCH 650V 80A TO247



**STGWA15H120F2**  
STMicroelectronics  
IGBT HB 1200V 15A HS TO247-3



**STGWA15M120DF3**  
STMicroelectronics  
IGBT 1200V 30A 259W



**STGW80H65DFB-4**  
STMicroelectronics  
IGBT BIPO 650V 80A TO247



**STGWA25H120DF2**  
STMicroelectronics  
IGBT HB 1200V 25A HS TO247-3



**STGWA40IH65DF**  
STMicroelectronics  
TRENCH GATE FIELD-STOP 650 V 40



**STGWA30N120KD**  
STMicroelectronics  
IGBT 1200V 60A 220W TO247



**STGWA30M65DF2**  
STMicroelectronics  
IGBT 650V 30A TO247-3



**STGWA40H65DFB2**  
STMicroelectronics  
TRENCH GATE FIELD-STOP 650 V 40



**STGW80V60DF**  
STMicroelectronics  
IGBT 600V 120A 469W TO247



**STGWA20HP65FB2**  
STMicroelectronics  
TRENCH GATE FIELD-STOP 650 V,  
20



**STGWA15H120DF2**  
STMicroelectronics  
IGBT HB 1200V 15A HS TO247-3



**STGWA40H120F2**  
STMicroelectronics  
IGBT BIPO 1200V 40A TO247-3



**STGWA20M65DF2**  
STMicroelectronics  
IGBT TRENCH 650V 40A TO247

## 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

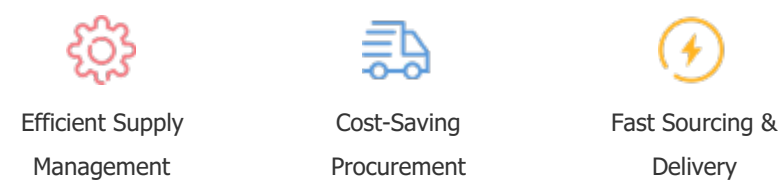
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

## Payment Support

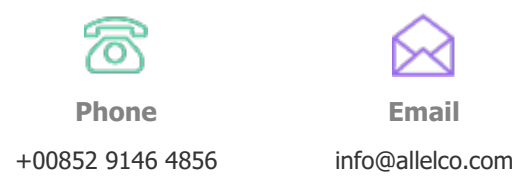
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,  
PayPal.



## Your Faithful Supply Chain Partner -



Contact us if you have any questions.



## Certifications & Memberships



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