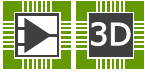





STGWA40H65DFB2

Manufacturer Part Number	STGWA40H65DFB2
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STGWA40H65DFB2
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	TRENCH GATE FIELD-STOP 650 V 40
Package	TO-247-3
Data sheet	STGWA40H65DFB2.pdf
RoHs Status	 ROHS3 Compliant



Get a Quote

STGWA40H65DFB2 - STMicroelectronics.New Original in Stock. Download Linear Technology STGWA40H65DFB2 datasheet/specifications on AllelcoElec.com.
Request a quote for STGWA40H65DFB2, please send us email: info@allelco.com





Specifications

STGWA40H65DFB2 Tech Specifications
STGWA40H65DFB2 - 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)	650 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2V @ 15V, 40A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	400V, 40A, 4.7Ohm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	18ns/72ns	Input Type	Standard
Switching Energy	765µJ (on), 410µJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	TO-247 Long Leads	Gate Charge	153 nC
Series	-	Current - Collector Pulsed (Icm)	160 A
Reverse Recovery Time (trr)	75 ns	Current - Collector (Ic) (Max)	72 A
Power - Max	230 W	Base Product Number	STGWA40

Parts with Similar Specifications


The three parts on the right have similar specifications to STMicroelectronics STGWA40H65DFB2

Product Attribute	 NO PICTURE	 life.augmented	 life.augmented	 life.augmented
Part Number	STGWA40H65DFB2	STGWA40H120F2	STGWA40S120DF3	STGWA50IH65DF
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Vce(on) (Max) @ Vge, Ic	2V @ 15V, 40A	2.6V @ 15V, 40A	2.15V @ 15V, 40A	2V @ 15V, 50A
Base Product Number	STGWA40	STGWA40	STGWA40	STGWA50
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Current - Collector (Ic) (Max)	72 A	80 A	80 A	100 A
Switching Energy	765µJ (on), 410µJ (off)	1mJ (on), 1.32mJ (off)	1.43mJ (on), 3.83mJ (off)	284µJ (off)
Package	Tube	Tube	Tube	Tube
Td (on/off) @ 25°C	18ns/72ns	18ns/152ns	35ns/148ns	-/260ns
Gate Charge	153 nC	158 nC	129 nC	158 nC
Supplier Device Package	TO-247 Long Leads	TO-247 Long Leads	TO-247-3	TO-247 Long Leads
Input Type	Standard	Standard	Standard	Standard
Voltage - Collector Emitter Breakdown (Max)	650 V	1200 V	1200 V	650 V
Power - Max	230 W	468 W	468 W	300 W
Current - Collector Pulsed (Icm)	160 A	160 A	160 A	150 A
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Test Condition	400V, 40A, 4.7Ohm, 15V	600V, 40A, 10Ohm, 15V	600V, 40A, 15Ohm, 15V	400V, 50A, 22Ohm, 15V
IGBT Type	Trench Field Stop	Trench Field Stop	Trench Field Stop	Trench Field Stop
Series	-	-	-	IH
Reverse Recovery Time (trr)	75 ns	-	355 ns	-


STGWA40H65DFB2 Datasheet PDF

Download STGWA40H65DFB2 pdf datasheets and STMicroelectronics documentation for STGWA40H65DFB2 - STMicroelectronics.

Datasheets

 [STGWA40H65DFB2.pdf](#)

PCN Assembly/Origin

 [Assembly Site 06/Apr/2023.pdf](#)

Customers Also Interested in

Recommended Products



STGWA40H120F2
STMicroelectronics
IGBT BIPO 1200V 40A TO247-3



STGWA40S120DF3
STMicroelectronics
IGBT 1200V 40A TO247-3L



STGWA50IH65DF
STMicroelectronics
TRENCH GATE FIELD-STOP IGBT 650



STGWA40H65DFB
STMicroelectronics
IGBT TRENCH 650V 80A TO247



STGWA50H65DFB2
STMicroelectronics
DISCRETE



STGWA50M65DF2
STMicroelectronics
TRENCH GATE FIELD-STOP IGBT M
SE



STGWA40H120DF2
STMicroelectronics
TRENCH GATE IGBT TO247 PKG



STGWA60H65DFB
STMicroelectronics
IGBT BIPO 650V 60A TO247-3



STGWA40IH65DF
STMicroelectronics
TRENCH GATE FIELD-STOP 650 V 40



STGWA30N120KD
STMicroelectronics
IGBT 1200V 60A 220W TO247



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



STGWA30M65DF2
STMicroelectronics
IGBT 650V 30A TO247-3



STGWA45HF60WDI
STMicroelectronics
IGBT 600V 80A 310W TO247



STGWA40M120DF3
STMicroelectronics
IGBT 1200V 80A 468W TO-247-3



STGWA30H65FB
STMicroelectronics
IGBT



STGWA20M65DF2
STMicroelectronics
IGBT TRENCH 650V 40A TO247



STGWA25M120DF3
STMicroelectronics
IGBT 1200V 50A 375W TO247



STGWA40N120KD
STMicroelectronics
IGBT 1200V 80A 240W 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 -



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



View More



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