



Image may be representation.  
See specifications for product details.



## STGWT40H65DFB

Manufacturer Part Number	<b>STGWT40H65DFB</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STGWT40H65DFB
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IGBT 650V 80A 283W TO3P-3L
Package	TO-3P-3, SC-65-3
Data sheet	<b>STGW(T)40H65DFB.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STGWT40H65DFB - STMicroelectronics.New Original in Stock. Download Linear Technology STGWT40H65DFB datasheet/specifications on AllelcoElec.com.  
Request a quote for STGWT40H65DFB, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STGWT40H65DFB Tech Specifications  
STGWT40H65DFB - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	TO-3P-3, SC-65-3
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, 50hm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	40ns/142ns	Input Type	Standard
Switching Energy	498μJ (on), 363μJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	TO-3P	Gate Charge	210 nC
Series	-	Current - Collector Pulsed (Icm)	160 A
Reverse Recovery Time (trr)	62 ns	Current - Collector (Ic) (Max)	80 A
Power - Max	283 W	Base Product Number	STGWT40

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STGWT40H65DFB

Product Attribute				
Part Number	STGWT40H65DFB	STGWT30H60DFB	STGWT40H65FB	STGWT20IH125DF
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
IGBT Type	Trench Field Stop	Trench Field Stop	Trench Field Stop	Trench Field Stop
Package / Case	TO-3P-3, SC-65-3	TO-3P-3, SC-65-3	TO-3P-3, SC-65-3	TO-3P-3, SC-65-3
Voltage - Collector Emitter Breakdown (Max)	650 V	600 V	650 V	1250 V
Power - Max	283 W	260 W	283 W	259 W
Vce(on) (Max) @ Vge, Ic	2V @ 15V, 40A	2V @ 15V, 30A	2.3V @ 15V, 40A	2.5V @ 15V, 15A
Td (on/off) @ 25°C	40ns/142ns	37ns/146ns	40ns/142ns	-/106ns
Series	-	-	-	-
Switching Energy	498μJ (on), 363μJ (off)	383μJ (on), 293μJ (off)	498mJ (on), 363mJ (off)	410μJ (off)
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Input Type	Standard	Standard	Standard	Standard
Current - Collector (Ic) (Max)	80 A	60 A	80 A	40 A
Reverse Recovery Time (trr)	62 ns	53 ns	-	-
Gate Charge	210 nC	149 nC	210 nC	68 nC
Base Product Number	STGWT40	STGWT30	STGWT40	STGWT20
Test Condition	400V, 40A, 50hm, 15V	400V, 30A, 100hm, 15V	400V, 40A, 50hm, 15V	600V, 15A, 100hm, 15V
Current - Collector Pulsed (Icm)	160 A	120 A	160 A	80 A
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Supplier Device Package	TO-3P	TO-3P	TO-3P	TO-3P
Package	Tube	Tube	Tube	Tube

### STGWT40H65DFB Datasheet PDF

Download STGWT40H65DFB pdf datasheets and STMicroelectronics documentation for STGWT40H65DFB - STMicroelectronics.

#### Datasheets

[STGW\(T\)40H65DFB.pdf](#)

#### PCN Design/Specification

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

#### PCN Assembly/Origin

[\[Link\]](#)

## Customers Also Interested in

### Recommended Products

<b>STGWT30H60DFB</b> STMicroelectronics IGBT 600V 60A 260W TO3PL	<b>STGWT40H65FB</b> STMicroelectronics IGBT 650V 80A 283W TO3P-3L	<b>STGWT20IH125DF</b> STMicroelectronics IGBT 1250V 40A 259W TO-3P	<b>STGWT30HP65FB</b> Nexperia USA Inc. STGWT30HP65F - IGBT 30A (@100C)	<b>STGWT60H65FB</b> STMicroelectronics IGBT 650V 80A 375W TO3P-3L	<b>STGWT60H65DFB</b> STMicroelectronics IGBT 650V 80A 375W TO3P-3L
<b>STGWT30H65FB</b> STMicroelectronics IGBT 650V 30A 260W TO3PL	<b>STGWT38IH130D</b> STMicroelectronics IGBT 1300V 63A 250W TO3P-3	<b>STGWT40HP65FB MOS</b> STMicroelectronics	<b>STGWT28IH120DF</b> STMicroelectronics	<b>STGWT20V60DF</b> NXP Semiconductors STGWT20V60DF - IGBT 20A (@100C)	<b>STGWT40V60DF</b> STMicroelectronics IGBT 600V 80A 283W TO3P-3
<b>STGWT40HP65FB</b> STMicroelectronics TRENCH GATE FIELD-STOP IGBT, HB	<b>STGWT40V60DLF</b> STMicroelectronics IGBT 600V 80A 283W TO3P-3	<b>STGWT30HP65FB</b> STMicroelectronics IGBT TRENCH 650V 60A TO3P	<b>STGWT30V60DF</b> STMicroelectronics IGBT 600V 60A 258W TO3P-3	<b>STGWT60H60DLFB</b> STMicroelectronics IGBT 600V 80A 375W TO3P-3L	<b>STGWT20V60DF</b> STMicroelectronics IGBT 600V 40A 167W TO3P-3

## 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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