

Image may be representation.
See specifications for product details.



STGB20M65DF2

Manufacturer Part Number	STGB20M65DF2
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STGB20M65DF2
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IGBT TRENCH 650V 40A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	STGB20M65DF2.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STGB20M65DF2 - STMicroelectronics. New Original in Stock. Download Linear Technology STGB20M65DF2 datasheet/specifications on AllelcoElec.com.
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Specifications

STGB20M65DF2 Tech Specifications

STGB20M65DF2 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Voltage - Collector Emitter Breakdown (Max)	650 V	Package	Tape & Reel (TR)
Vce(on) (Max) @ Vge, Ic	2V @ 15V, 20A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	400V, 20A, 120hm, 15V	Mounting Type	Surface Mount
Td (on/off) @ 25°C	26ns/108ns	Input Type	Standard
Switching Energy	140μJ (on), 560μJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	D2PAK	Gate Charge	63 nC
Series	M	Current - Collector Pulsed (Icm)	80 A
Reverse Recovery Time (trr)	166 ns	Current - Collector (Ic) (Max)	40 A
Power - Max	166 W	Base Product Number	STGB20

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STGB20M65DF2

Product Attribute				
Part Number	STGB20M65DF2	STGB20NB41LZT4	STGB19NC60HDT4	STGB30V60DF
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Gate Charge	63 nC	46 nC	53 nC	163 nC
Base Product Number	STGB20	STGB20	STGB19	STGB30
Input Type	Standard	Standard	Standard	Standard
Test Condition	400V, 20A, 120hm, 15V	320V, 20A, 1kOhm, 5V	390V, 12A, 100hm, 15V	400V, 30A, 100hm, 15V
Current - Collector (Ic) (Max)	40 A	40 A	40 A	60 A
Reverse Recovery Time (trr)	166 ns	-	31 ns	53 ns
Voltage - Collector Emitter Breakdown (Max)	650 V	442 V	600 V	600 V
Vce(on) (Max) @ Vge, Ic	2V @ 15V, 20A	2V @ 4.5V, 20A	2.5V @ 15V, 12A	2.3V @ 15V, 30A
Supplier Device Package	D2PAK	D2PAK	D2PAK	D2PAK
Series	M	PowerMESH™	PowerMESH™	-
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Current - Collector Pulsed (Icm)	80 A	80 A	60 A	120 A
Power - Max	166 W	200 W	130 W	258 W
Switching Energy	140μJ (on), 560μJ (off)	5mJ (on), 12.9mJ (off)	85μJ (on), 189μJ (off)	383μJ (on), 233μJ (off)
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)
IGBT Type	Trench Field Stop	-	-	Trench Field Stop
Td (on/off) @ 25°C	26ns/108ns	1μs/12.1μs	25ns/97ns	45ns/189ns
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB

STGB20M65DF2 Datasheet PDF

Download STGB20M65DF2 pdf datasheets and STMicroelectronics documentation for STGB20M65DF2 - STMicroelectronics.

Datasheets



















[STGB20M65DF2.pdf](#)

PCN Packaging

[Mult Dev Inner Box Chg 9/Dec/2021.pdf](#)

Customers Also Interested in

Recommended Products

					
STGB20NB41LZT4 STMicroelectronics IGBT 442V 40A 200W D2PAK	STGB19NC60HDT4 STMicroelectronics IGBT 600V 40A 130W D2PAK	STGB30V60DF STMicroelectronics IGBT 600V 60A 258W D2PAK	STGB20NB37LZ STMicroelectronics IGBT 425V 40A 200W D2PAK	STGB20NB37LZT4 STMicroelectronics IGBT 425V 40A 200W D2PAK	STGB19NC60HD STMicroelectronics
					
STGB18N40LZ STMicroelectronics	STGB20NB41LZT4 MOS STMicroelectronics	STGB18N40LZT4 STMicroelectronics IGBT 420V 30A 150W D2PAK	STGB25N40LZAG STMicroelectronics POWER TRANSISTORS	STGB15M65DF2 STMicroelectronics TRENCH GATE FIELD-STOP IGBT M SE	STGB20N45LZAG STMicroelectronics POWER TRANSISTORS
					
STGB19NC60KD STMicroelectronics	STGB19NC60KDT4 STMicroelectronics IGBT 600V 35A 125W D2PAK	STGB20NC60VT4 STMicroelectronics IGBT 600V 60A 200W D2PAK	STGB30H60DF STMicroelectronics IGBT 600V 60A 260W D2PAK	STGB30M65DF2 STMicroelectronics IGBT 650V 30A D2PAK	STGB20H60DF STMicroelectronics IGBT 600V 40A 167W D2PAK

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.



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-  Efficient Supply Management
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Contact us if you have any questions.

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