



Image may be representation.  
See specifications for product details.



## STGB3NC120HDT4

Manufacturer Part Number **STGB3NC120HDT4**

Manufacturer **STMicroelectronics**

Allelco Part Number **32D-STGB3NC120HDT4**

ECAD Model Request Free CAD Models

Parts Description **IGBT 1200V 14A 75W D2PAK**

Package **TO-263-3, D<sup>2</sup>Pak (2 Leads + Tab), TO-263AB**

Data sheet **STGB/F/P3NC120HD.pdf**

RoHs Status **ROHS3 Compliant**

**Get a Quote**

STGB3NC120HDT4 - STMicroelectronics.New Original in Stock. Download Linear Technology STGB3NC120HDT4 datasheet/specifications on AllelcoElec.com.  
Request a quote for STGB3NC120HDT4, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STGB3NC120HDT4 Tech Specifications

STGB3NC120HDT4 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB
Voltage - Collector Emitter Breakdown (Max)	1200 V	Package	Tape & Reel (TR)
Vce(on) (Max) @ Vge, Ic	2.8V @ 15V, 3A	Operating Temperature	-55°C ~ 150°C (TJ)
Test Condition	800V, 3A, 100hm, 15V	Mounting Type	Surface Mount
Td (on/off) @ 25°C	15ns/118ns	Input Type	Standard
Switching Energy	236µJ (on), 290µJ (off)	IGBT Type	-
Supplier Device Package	D <sup>2</sup> PAK (TO-263)	Gate Charge	24 nC
Series	PowerMESH™	Current - Collector Pulsed (Icm)	20 A
Reverse Recovery Time (trr)	51 ns	Current - Collector (Ic) (Max)	14 A
Power - Max	75 W	Base Product Number	STGB3

### Parts with Similar Specifications

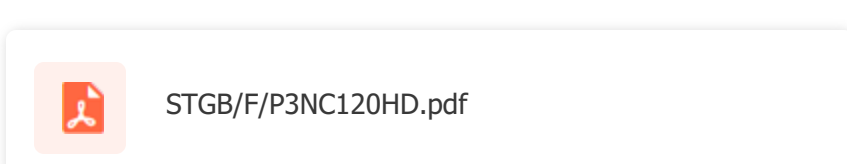
The three parts on the right have similar specifications to STMicroelectronics STGB3NC120HDT4

Product Attribute				
Part Number	STGB3NC120HDT4	STGB30V60DF	STGB30H60DF	STGB7NB60HDT4
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Switching Energy	236µJ (on), 290µJ (off)	383µJ (on), 233µJ (off)	350µJ (on), 400µJ (off)	85µJ (off)
Input Type	Standard	Standard	Standard	Standard
Current - Collector Pulsed (Icm)	20 A	120 A	120 A	56 A
Supplier Device Package	D <sup>2</sup> PAK (TO-263)	D2PAK	D2PAK	D2PAK
IGBT Type	-	Trench Field Stop	Trench Field Stop	-
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Power - Max	75 W	258 W	260 W	80 W
Gate Charge	24 nC	163 nC	105 nC	42 nC
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-40°C ~ 175°C (TJ)	150°C (TJ)
Current - Collector (Ic) (Max)	14 A	60 A	60 A	14 A
Series	PowerMESH™	-	-	PowerMESH™
Base Product Number	STGB3	STGB30	STGB30	STGB7
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Collector Emitter Breakdown (Max)	1200 V	600 V	600 V	600 V
Test Condition	800V, 3A, 100hm, 15V	400V, 30A, 100hm, 15V	400V, 30A, 100hm, 15V	480V, 7A, 100hm, 15V
Td (on/off) @ 25°C	15ns/118ns	45ns/189ns	50ns/160ns	15ns/75ns
Package / Case	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB
Vce(on) (Max) @ Vge, Ic	2.8V @ 15V, 3A	2.3V @ 15V, 30A	2.4V @ 15V, 30A	2.8V @ 15V, 7A
Reverse Recovery Time (trr)	51 ns	53 ns	110 ns	100 ns

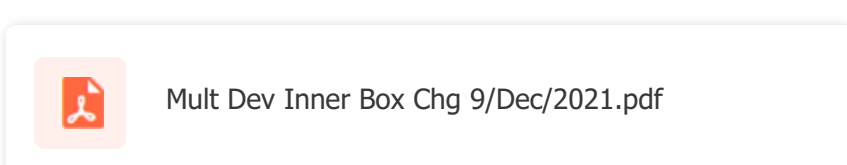
### STGB3NC120HDT4 Datasheet PDF

Download STGB3NC120HDT4 pdf datasheets and STMicroelectronics documentation for STGB3NC120HDT4 - STMicroelectronics.

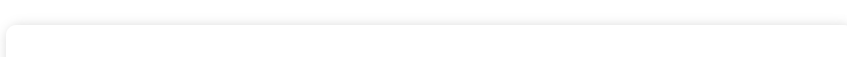
#### Datasheets



#### PCN Packaging





















#### PCN Design/Specification



PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 <b>STGB30V60DF</b> STMicroelectronics IGBT 600V 60A 258W D2PAK	 <b>STGB30H60DF</b> STMicroelectronics IGBT 600V 60A 260W D2PAK	 <b>STGB7NC60HD</b> STMicroelectronics	 <b>STGB7NB60HDT4</b> STMicroelectronics IGBT 600V 14A 80W D2PAK	 <b>STGB6NC60HD-1</b> STMicroelectronics IGBT 600V 15A 56W I2PAK	 <b>STGB35N35LZT4</b> STMicroelectronics IGBT 345V 40A 176W D2PAK
 <b>STGB5H60DF</b> STMicroelectronics TRENCH GATE FIELD-STOP IGBT, H S	 <b>STGB20NC60VT4</b> STMicroelectronics IGBT 600V 60A 200W D2PAK	 <b>STGB35N35LZ-1</b> STMicroelectronics IGBT 345V 40A 176W I2PAK	 <b>STGB3NB60SDT4</b> STMicroelectronics IGBT 600V 6A 70W D2PAK	 <b>STGB30M65DF2</b> STMicroelectronics IGBT 650V 30A D2PAK	 <b>STGB40H65FB</b> STMicroelectronics IGBT BIPO 650V 40A D2PAK
 <b>STGB25N40LZAG</b> STMicroelectronics POWER TRANSISTORS	 <b>STGB7NB60HD MOS</b> STMicroelectronics	 <b>STGB7NB60HD</b> STMicroelectronics	 <b>STGB6NC60HDT4</b> STMicroelectronics IGBT 600V 15A 56W D2PAK	 <b>STGB7H60DF</b> STMicroelectronics IGBT 600V 14A 88W D2PAK	 <b>STGB20NB41LZT4 MOS</b> 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.

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Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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