

Image may be representation.
See specifications for product details.



HGT1S10N120BNST

Manufacturer Part Number	HGT1S10N120BNST
Manufacturer	onsemi
Allelco Part Number	32D-HGT1S10N120BNST
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IGBT 1200V 35A 298W TO263AB
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	HGT(G,P)10N120BN, HGT1S10N120BNS.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

HGT1S10N120BNST - onsemi.New Original in Stock. Download Linear Technology HGT1S10N120BNST datasheet/specifications on AllelcoElec.com.
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Specifications

HGT1S10N120BNST Tech Specifications
HGT1S10N120BNST - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Package	Tape & Reel (TR)
Voltage - Collector Emitter Breakdown (Max)	1200 V	Operating Temperature	-55°C ~ 150°C (TJ)
Vce(on) (Max) @ Vge, Ic	2.7V @ 15V, 10A	Mounting Type	Surface Mount
Test Condition	960V, 10A, 100hm, 15V	Input Type	Standard
Td (on/off) @ 25°C	23ns/165ns	IGBT Type	NPT
Switching Energy	320μJ (on), 800μJ (off)	Gate Charge	100 nC
Supplier Device Package	D ² PAK (TO-263)	Current - Collector Pulsed (Icm)	80 A
Series	-	Current - Collector (Ic) (Max)	35 A
Power - Max	298 W	Base Product Number	HGT1S10
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB		

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi HGT1S10N120BNST

Product Attribute				
Part Number	HGT1S10N120BNST	HGT1S12N60B3S	HGT1S10N120BNS	HGT1S10N120BNS
Manufacturer	onsemi	Harris Corporation	Fairchild Semiconductor	onsemi
Package	Tape & Reel (TR)	Bulk	Bulk	Tube
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
Gate Charge	100 nC	68 nC	100 nC	100 nC
IGBT Type	NPT	-	NPT	NPT
Voltage - Collector Emitter Breakdown (Max)	1200 V	600 V	1200 V	1200 V
Series	-	-	-	-
Input Type	Standard	Standard	Standard	Standard
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Switching Energy	320μJ (on), 800μJ (off)	304μJ (on), 250μJ (off)	320μJ (on), 800μJ (off)	320μJ (on), 800μJ (off)
Power - Max	298 W	104 W	298 W	298 W
Vce(on) (Max) @ Vge, Ic	2.7V @ 15V, 10A	2.1V @ 15V, 12A	2.7V @ 15V, 10A	2.7V @ 15V, 10A
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Test Condition	960V, 10A, 100hm, 15V	480V, 12A, 250hm, 15V	960V, 10A, 100hm, 15V	960V, 10A, 100hm, 15V
Current - Collector Pulsed (Icm)	80 A	110 A	80 A	80 A
Supplier Device Package	D ² PAK (TO-263)	D2PAK (TO-263)	TO-263AB	D ² PAK (TO-263)
Current - Collector (Ic) (Max)	35 A	27 A	35 A	35 A
Td (on/off) @ 25°C	23ns/165ns	26ns/150ns	23ns/165ns	23ns/165ns
Base Product Number	HGT1S10	-	HGT1S10	HGT1S10

HGT1S10N120BNST Datasheet PDF

Download HGT1S10N120BNST pdf datasheets and onsemi documentation for HGT1S10N120BNST - onsemi.

Datasheets

[HGT\(G,P\)10N120BN, HGT1S10N120BNS.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)


[onsemi RoHS.pdf](#)

PCN Design/Specification

[Logo 17/Aug/2017.pdf](#)

[Description Chg 01/Apr/2016.pdf](#)

PCN Packaging

 TO263 31/Aug/2016.pdf




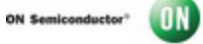




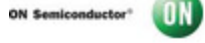









 Mult Dev Box Chgs 1/Jul/2021.pdf

PCN Assembly/Origin

 Assembly Change 09/May/2023.pdf

Customers Also Interested in

Recommended Products

					
HGT1S14N36G3VL	HGT1S12N60B3S	HGT1S10N120BNS	HGT1N40N60A4D	HGT1S14N40G3VLS	HGT1S14N41G3VLSR487
Fairchild (onsemi)	Harris Corporation 27A, 600V, UFS N-CHANNEL IGBT	Fairchild Semiconductor IGBT, 35A, 1200V, N-CHANNEL, TO-	onsemi IGBT MOD 600V 110A 298W SOT227B	Fairchild (onsemi)	Fairchild (onsemi)
					
HGT1S10N120BNST##Q	HGT1S14N40F3VLS	HGT1N30N60A4D	HGT1S14N41G3VLS9A	HGT1S12N60C3DS9A	HGT1N30N60A4D
NO PICTURE	FSC	onsemi IGBT MOD 600V 96A 255W SOT227B	Fairchild (onsemi)	Fairchild (onsemi)	Fairchild Semiconductor IGBT, 96A, 600V, N-CHANNEL
					
HGT1S10N120BNS	HGT1S12N60C3DS	HGT1S14N36G3VLT	HGT1S12N60A4DS	HGT1S14N36G3VLT	HGT1S12N60A4DS
onsemi IGBT 1200V 35A 298W TO263AB	Fairchild Semiconductor IGBT, 24A, 600V, N-CHANNEL	onsemi IGBT 390V 18A 100W TO262AA	Fairchild Semiconductor IGBT, 54A, 600V, N-CHANNEL, TO-2	Fairchild Semiconductor N-CHANNEL IGBT	onsemi IGBT 600V 54A 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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