





FGY40T120SMD

Manufacturer Part Number	FGY40T120SMD
Manufacturer	onsemi
Allelco Part Number	32D-FGY40T120SMD
ECAD Model	 Request Free CAD Models
Parts Description	IGBT 1200V 80A TO-247
Package	TO-247-3
Data sheet	FGY40T120SMD.pdf
RoHs Status	 ROHS3 Compliant



Get a Quote

FGY40T120SMD - onsemi.New Original in Stock. Download Linear Technology FGY40T120SMD datasheet/specifications on AllelcoElec.com.

Request a quote for FGY40T120SMD, please send us email: info@allelco.com

Specifications





FGY40T120SMD Tech Specifications

FGY40T120SMD - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Package / Case	TO-247-3
Voltage - Collector Emitter Breakdown (Max)	1200 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2.4V @ 15V, 40A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	600V, 40A, 100hm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	40ns/475ns	Input Type	Standard
Switching Energy	2.7mJ (on), 1.1mJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	TO-247	Gate Charge	370 nC
Series	-	Current - Collector Pulsed (Icm)	160 A
Reverse Recovery Time (trr)	65 ns	Current - Collector (Ic) (Max)	80 A
Power - Max	882 W	Base Product Number	FGY40T120

Parts with Similar Specifications


The three parts on the right have similar specifications to onsemi FGY40T120SMD

Product Attribute	 NO PICTURE			
Part Number	FGY40T120SMD	IXGH56N60A3	FGY160T65SPD-F085	FGY75N60SMD
Manufacturer	onsemi	IXYS	onsemi	onsemi
Test Condition	600V, 40A, 100hm, 15V	480V, 44A, 50hm, 15V	400V, 160A, 15V	400V, 75A, 30hm, 15V
Input Type	Standard	Standard	Standard	Standard
Supplier Device Package	TO-247	TO-247AD	TO-247-3	PowerTO-247-3
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Tube	Tube	Tube
Series	-	GenX3™	Automotive, AEC-Q101	-
Switching Energy	2.7mJ (on), 1.1mJ (off)	1mJ (on), 3.75mJ (off)	12.4mJ (on), 5.7mJ (off)	2.3mJ (on), 770μJ (off)
Current - Collector Pulsed (Icm)	160 A	370 A	480 A	225 A
Current - Collector (Ic) (Max)	80 A	150 A	240 A	150 A
Vce(on) (Max) @ Vge, Ic	2.4V @ 15V, 40A	1.35V @ 15V, 44A	2.05V @ 15V, 160A	2.5V @ 15V, 75A
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3 Variant
Voltage - Collector Emitter Breakdown (Max)	1200 V	600 V	650 V	600 V
Reverse Recovery Time (trr)	65 ns	-	132 ns	55 ns
Gate Charge	370 nC	140 nC	-	248 nC
Td (on/off) @ 25°C	40ns/475ns	26ns/310ns	53ns/98ns	24ns/136ns
Power - Max	882 W	330 W	882 W	750 W
IGBT Type	Trench Field Stop	PT	Trench Field Stop	Field Stop
Base Product Number	FGY40T120	IXGH56	FGY160	FGY75N60


FGY40T120SMD Datasheet PDF

Download FGY40T120SMD pdf datasheets and onsemi documentation for FGY40T120SMD - onsemi.

Datasheets


FGY40T120SMD.pdf

Environmental Information


onsemi RoHS.pdf

PCN Design/Specification

Logo 17/Aug/2017.pdf

Dimension/Color Change 24/Feb/2021.pdf

PCN Packaging

Mult Devices 24/Oct/2017.pdf

Packing quantity increase 28/Dec/2020.pdf

PCN Assembly/Origin

Assembly/Test Change 03/Mar/2023.pdf

Customers Also Interested in

Recommended Products



IXGH56N60A3
IXYS
IGBT 600V 150A 330W TO247



FGY160T65SPD-F085
onsemi
650V FS GEN3 TRENCH IGBT



FGY75N60SMD
onsemi
IGBT 600V 150A 750W POWER-247



IRG7PH42U-EP
International Rectifier
IGBT



IXGH20N60A
IXYS
IGBT 600V 40A 150W TO247AD



IRGI4060DPBF
Infineon Technologies
IGBT 600V 14A 37W TO220ABFP



IXGM25N100A
IXYS
IGBT 1000V 50A 200W TO247AE



FGY75N60SMD
Fairchild Semiconductor
INSULATED GATE BIPOLAR TRANSISTO



APT25GP90BDQ1G
Microchip Technology
IGBT 900V 72A 417W TO247



IRG4IBC30UDPBF
International Rectifier
COPACK IGBT W/ULTRAFAST SOFT REC



FGY75T120SQDN
onsemi
IGBT 1200V 75A UFS



STGB6NC60HD-1
STMicroelectronics
IGBT 600V 15A 56W I2PAK



HGT1S3N60A4DS9A
onsemi
IGBT 600V 17A 70W D2PAK



HGTP7N60C3D
Harris Corporation
IGBT, 14A, 600V, N-CHANNEL, TO-2



IRG4BC20W-SPBF
Infineon Technologies
IGBT 600V 13A 60W D2PAK



FGY120T65SPD-F085
onsemi
IGBT 650V 240A 882W TO-247



FGY60T120SQDN
onsemi
IGBT 1200V 60A UFS



FGH40T120SMDL4
Fairchild Semiconductor
INSULATED GATE BIPOLAR TRANSISTO

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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