

Image may be representation.
See specifications for product details.



FGA40N65SMD

Manufacturer Part Number	FGA40N65SMD
Manufacturer	onsemi
Allelco Part Number	32D-FGA40N65SMD
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IGBT FIELD STOP 650V 80A TO3PN
Package	TO-3P-3, SC-65-3
Data sheet	FGA40N65SMD.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

FGA40N65SMD - onsemi.New Original in Stock. Download Linear Technology FGA40N65SMD datasheet/specifications on AllelcoElec.com.
Request a quote for FGA40N65SMD, please send us email: info@allelco.com

Specifications

FGA40N65SMD Tech Specifications

FGA40N65SMD - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Package / Case	TO-3P-3, SC-65-3
Voltage - Collector Emitter Breakdown (Max)	650 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2.5V @ 15V, 40A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	400V, 40A, 60hm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	12ns/92ns	Input Type	Standard
Switching Energy	820µJ (on), 260µJ (off)	IGBT Type	Field Stop
Supplier Device Package	TO-3PN	Gate Charge	119 nC
Series	-	Current - Collector Pulsed (Icm)	120 A
Reverse Recovery Time (trr)	42 ns	Current - Collector (Ic) (Max)	80 A
Power - Max	349 W	Base Product Number	FGA40N65

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FGA40N65SMD

Product Attribute				
Part Number	FGA40N65SMD	FGA40T65SHDF	FGA40T65SHD	FGA30S120P
Manufacturer	onsemi	onsemi	onsemi	Fairchild Semiconductor
Series	-	-	-	-
Power - Max	349 W	268 W	268 W	348 W
Package	Tube	Tube	Tube	Bulk
Gate Charge	119 nC	68 nC	72.2 nC	78 nC
Reverse Recovery Time (trr)	42 ns	101 ns	31.8 ns	-
Td (on/off) @ 25°C	12ns/92ns	18ns/64ns	19.2ns/65.6ns	-
Current - Collector (Ic) (Max)	80 A	80 A	80 A	60 A
Switching Energy	820µJ (on), 260µJ (off)	1.22mJ (on), 440µJ (off)	1.01mJ (on), 297µJ (off)	-
Supplier Device Package	TO-3PN	TO-3PN	TO-3PN	TO-3PN
IGBT Type	Field Stop	Trench Field Stop	Trench Field Stop	Trench Field Stop
Current - Collector Pulsed (Icm)	120 A	120 A	120 A	150 A
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
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
Vce(on) (Max) @ Vge, Ic	2.5V @ 15V, 40A	1.81V @ 15V, 40A	2.1V @ 15V, 40A	2.3V @ 15V, 30A
Input Type	Standard	Standard	Standard	Standard
Test Condition	400V, 40A, 60hm, 15V	400V, 40A, 60hm, 15V	400V, 40A, 60hm, 15V	-
Base Product Number	FGA40N65	FGA40T65	FGA40T65	FGA30S120
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Voltage - Collector Emitter Breakdown (Max)	650 V	650 V	650 V	1300 V

FGA40N65SMD Datasheet PDF

Download FGA40N65SMD pdf datasheets and onsemi documentation for FGA40N65SMD - onsemi.

Datasheets

[FGA40N65SMD.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

PCN Design/Specification

[onsemi PCN Design/Specification.pdf](#)

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Logo 17/Aug/2017.pdf

Dimension/Color Change 24/Feb/2021.pdf

PCN Packaging

Mult Devices 24/Oct/2017.pdf







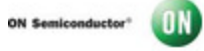





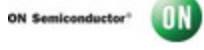





Packing quantity increase 28/Dec/2020.pdf

PCN Assembly/Origin

Assembly/Test Site 14/Dec/2022.pdf

Customers Also Interested in

Recommended Products

 FGA40T65SHDF onsemi IGBT TRENCH/FS 650V 80A TO3PN	 FGA40T65SHD onsemi IGBT TRENCH/FS 650V 80A TO3PN	 FGA30S120P Fairchild Semiconductor INSULATED GATE BIPOLAR TRANSISTO	 FGA5065ADF onsemi IGBT TRENCH/FS 650V 100A TO3PN	 FGA40T65UQDF onsemi IGBT NPT 650V 80A TO3PN	 FGA50N100BNTD Fairchild (onsemi)
 FGA4060ADF onsemi IGBT TRENCH/FS 600V 80A TO3PN	 FGA5065ADF Fairchild Semiconductor INSULATED GATE BIPOLAR TRANSISTO	 FGA4060ADF Fairchild Semiconductor INSULATED GATE BIPOLAR TRANSISTO	 FGA50N100BNT Fairchild (onsemi)	 FGA40T65SHDF Fairchild Semiconductor INSULATED GATE BIPOLAR TRANSISTO	 FGA30T65SHD onsemi IGBT TRENCH/FS 650V 60A TO3PN
 FGA30S120P onsemi IGBT TRENCH/FS 1300V 60A TO3PN	 FGA30N65SMD Fairchild Semiconductor INSULATED GATE BIPOLAR TRANSISTO	 FGA40N60UFDTU onsemi IGBT 600V 40A 160W TO3P	 FGA30N65SMD onsemi IGBT FIELD STOP 650V 60A TO3PN	 FGA40T65UQDF Fairchild Semiconductor INSULATED GATE BIPOLAR TRANSISTO	 FGA40N60UFDTU Fairchild Semiconductor IGBT, 40A, 600V, N-CHANNEL

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
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Contact us if you have any questions.

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Certifications & Memberships



View More

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