FGAF40S65AQ

Manufacturer Part Number	FGAF40S65AQ
Manufacturer	onsemi
Allelco Part Number	32D-FGAF40S65AQ
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	650V 40A FS4 SA IGBT
Package	TO-3P-3 Full Pack
Data sheet	FGAF40S65AQ.pdf
RoHS Status	ROHS3 Compliant

ON Semiconductor® ON

Get a Quote

FGAF40S65AQ - onsemi.New Original in Stock. Download Linear Technology FGAF40S65AQ datasheet/specifications on AllelcoElec.com.
Request a quote for FGAF40S65AQ, please send us email: info@allelco.com

Specifications

FGAF40S65AQ Tech Specifications
FGAF40S65AQ - onsemi technical specifications, attributes, parameters

| Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Package / Case	TO-3P-3 Full Pack
Voltage - Collector Emitter Breakdown (Max)	650 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2.1V @ 15V, 40A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	400V, 10A, 6Ohm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	17.8ns/81.6ns	Input Type	Standard
Switching Energy	132μJ (on), 62μJ (off)	IGBT Type	Trench Field Stop
Supplier Device Package	TO-3PF-3	Gate Charge	75 nC
Series	-	Current - Collector Pulsed (Icm)	160 A
Reverse Recovery Time (trr)	274 ns	Current - Collector (Ic) (Max)	80 A
Power - Max	94 W	Base Product Number	FGAF40

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FGAF40S65AQ

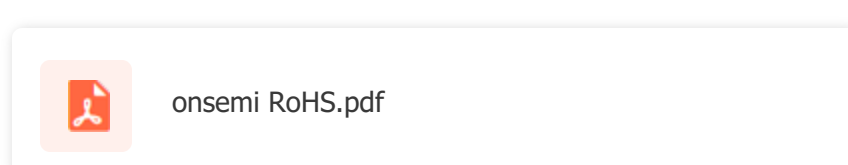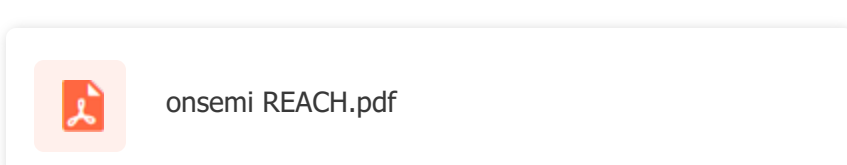| Product Attribute	NO PICTURE			
Part Number	FGAF40S65AQ	FGA90N33ATDTU	FGAF20N60SMD	FGAF40N60UFDTU
Manufacturer	onsemi	Fairchild Semiconductor	onsemi	onsemi
Supplier Device Package	TO-3PF-3	TO-3P	TO-3PF	TO-3PF
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package / Case	TO-3P-3 Full Pack	TO-3P-3, SC-65-3	TO-3P-3 Full Pack	TO-3P-3 Full Pack
Gate Charge	75 nC	95 nC	64 nC	77 nC
Reverse Recovery Time (trr)	274 ns	23 ns	26.7 ns	95 ns
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)
Power - Max	94 W	223 W	75 W	100 W
Package	Tube	Bulk	Tube	Tube
Voltage - Collector Emitter Breakdown (Max)	650 V	330 V	600 V	600 V
Series	-	-	-	-
IGBT Type	Trench Field Stop	Trench	Field Stop	-
Base Product Number	FGAF40	FGA90	FGAF20	FGAF40
Switching Energy	132μJ (on), 62μJ (off)	-	452μJ (on), 141μJ (off)	470μJ (on), 130μJ (off)
Test Condition	400V, 10A, 6Ohm, 15V	-	400V, 20A, 10Ohm, 15V	300V, 20A, 10Ohm, 15V
Input Type	Standard	Standard	Standard	Standard
Vce(on) (Max) @ Vge, Ic	2.1V @ 15V, 40A	1.4V @ 15V, 20A	1.7V @ 15V, 20A	3V @ 15V, 20A
Current - Collector Pulsed (Icm)	160 A	330 A	60 A	160 A
Td (on/off) @ 25°C	17.8ns/81.6ns	-	12ns/91ns	15ns/65ns
Current - Collector (Ic) (Max)	80 A	90 A	40 A	40 A

FGAF40S65AQ Datasheet PDF

Download FGAF40S65AQ pdf datasheets and onsemi documentation for FGAF40S65AQ - onsemi.

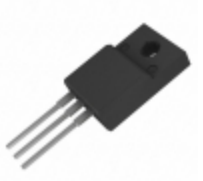### Datasheets

📄 FGAF40S65AQ.pdf
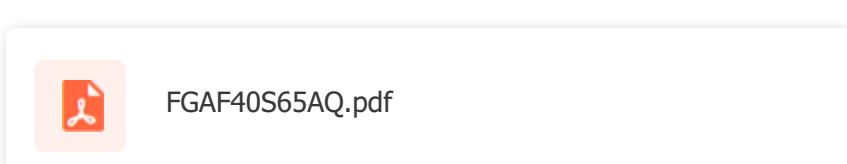
Environmental Information

📄 onsemi REACH.pdf   📄 onsemi RoHS.pdf
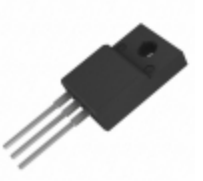
PCN Assembly/Origin

PCN Design/Specification

PDF FGAF40S65AQ Mark Chg 13/Feb/2020.pdf

Customers Also Interested in

Recommended Products

FGA90N33ATDTU
Fairchild Semiconductor
IGBT, 90A, 330V, N-CHANNEL

FGAF20N60SMD
onsemi
IGBT FIELD STOP 600V 40A TO3PF

FGAF40N60UFDTU
onsemi
IGBT 600V 40A TO3PF

FGAF40N60UFTU
onsemi
IGBT 600V 40A TO3PF

FGA70N33BTDTU
onsemi
IGBT 330V 149W TO3P

FGAF40N60UFTU
Fairchild Semiconductor
INSULATED GATE BIPOLAR TRANSISTO

FGA70N33BTDLDTU
Fairchild (onsemi)

FGAF40N60UFD
Fairchild (onsemi)

FGA70N33BTD
Fairchild (onsemi)

FGA6560WDF
onsemi
IGBT TRENCH/FS 650V 120A TO3PN

FGAF40N60UF
Fairchild (onsemi)

FGAF40N60UFDTU
Fairchild Semiconductor
INSULATED GATE BIPOLAR TRANSISTO

FGAF40N60UFDTU-NL
Fairchild (onsemi)

FGAF40N60SMD
onsemi
IGBT FIELD STOP 600V 80A TO3PF

FGA90N33ATDTU
onsemi
IGBT 330V 90A 223W TO3P

FGA90N33ATTU
onsemi
IGBT 330V 90A 223W TO3P

FGA90N33ATD
Fairchild (onsemi)

FGA70N33B
Fairchild (onsemi)

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.

EAST WEST BANK
MasterCard
VISA
WESTERN UNION
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

ISO ISO 13485:2016
ISO 9001:2015 CERTIFIED COMPANY
ISO 14001:2015 CERTIFIED COMPANY
ISO 28000:2007
IPC Member
SMTA Surface Mount Technology Association

View More

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