

Image may be representation.  
See specifications for product details.



## FDMF6824A

Manufacturer Part Number	<b>FDMF6824A</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FDMF6824A
ECAD Model	Request Free CAD Models
Parts Description	<b>IC HALF BRIDGE DRIVER 60A 40PQFN</b>
Package	<b>40-PowerTFQFN</b>
Data sheet	FDMF6824A.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

FDMF6824A - onsemi.New Original in Stock. Download Linear Technology FDMF6824A datasheet/specifications on AllelcoElec.com.  
Request a quote for FDMF6824A, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

FDMF6824A Tech Specifications  
FDMF6824A - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-40°C ~ 150°C (TJ)
Voltage - Supply	4.5V ~ 5.5V	Mounting Type	Surface Mount
Voltage - Load	3V ~ 16V	Load Type	Inductive
Technology	DrMOS	Interface	PWM
Supplier Device Package	40-PQFN (6x6)	Features	Bootstrap Circuit, Status Flag
Series	-	Fault Protection	Over Temperature, Shoot-Through, UVLO
Rds On (Typ)	10hm LS, 10hm HS	Current - Peak Output	-
Package / Case	40-PowerTFQFN	Current - Output / Channel	60A
Package	Tape & Reel (TR)	Base Product Number	FDMF6824
Output Configuration	Half Bridge	Applications	Synchronous Buck Converters

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDMF6824A

Product Attribute				
Part Number	FDMF6824A	<b>FDMF8704</b>	<b>FDMF6821C</b>	<b>FDMF6823B</b>
Manufacturer	onsemi	Fairchild Semiconductor	onsemi	Fairchild Semiconductor
Load Type	Inductive	Inductive	Inductive	Inductive, Capacitive, Resistive
Voltage - Load	3V ~ 16V	7V ~ 20V	3V ~ 16V	3V ~ 16V
Series	-	-	XS™ DrMOS	-
Base Product Number	FDMF6824	FDMF8704	FDMF6821	FDMF6823
Supplier Device Package	40-PQFN (6x6)	56-MLP (8x8)	40-PQFN (6x6)	40-PQFN (6x6)
Current - Output / Channel	60A	32A	50A	55A
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Fault Protection	Over Temperature, Shoot-Through, UVLO	Shoot-Through	Over Temperature, Shoot-Through, UVLO	Over Temperature, Shoot-Through, UVLO
Applications	Synchronous Buck Converters	Synchronous Buck Converters	Synchronous Buck Converters	Synchronous Buck Converters
Package / Case	40-PowerTFQFN	56-PowerWFQFN Module	40-PowerTFQFN	40-TFQFN Exposed Pad
Current - Peak Output	-	65A	-	55A
Voltage - Supply	4.5V ~ 5.5V	4.5V ~ 5.5V	4.5V ~ 5.5V	4.5V ~ 5.5V
Output Configuration	Half Bridge	Half Bridge	Half Bridge	Half Bridge
Rds On (Typ)	10hm LS, 10hm HS	-	10hm LS, 10hm HS	10hm LS, 10hm HS
Interface	PWM	PWM	PWM	Logic, PWM
Operating Temperature	-40°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-40°C ~ 150°C (TJ)	-40°C ~ 150°C (TJ)
Features	Bootstrap Circuit, Status Flag	Bootstrap Circuit, 5V Regulated Output	Bootstrap Circuit, Status Flag	Bootstrap Circuit
Package	Tape & Reel (TR)	Bulk	Tape & Reel (TR)	Bulk
Technology	DrMOS	DrMOS	DrMOS	DrMOS, Power MOSFET

### FDMF6824A Datasheet PDF

Download FDMF6824A pdf datasheets and onsemi documentation for FDMF6824A - onsemi.

#### Environmental Information

- onsemi REACH.pdf
- onsemi RoHS.pdf
- Material Declaration FDMF6824A.pdf

#### PCN Design/Specification

- Logo 17/Aug/2017.pdf

#### PCN Packaging

Mult Devices 24/Oct/2017.pdf

### PCN Obsolescence/ EOL










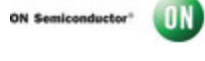








Obsolete Notice 15/Dec/2022.pdf

### PCN Assembly/Origin

FDMF68/ZSPM906 07/Feb/2019.pdf

## Customers Also Interested in

### Recommended Products

 <b>FDMF8704</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 32A 56MLP	 <b>FDMF6821C</b> onsemi IC HALF BRIDGE DRIVER 50A 40PQFN	 <b>FDMF6823B</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 55A 40PQFN	 <b>FDMF6823</b> Fairchild Semiconductor FDMF6823 - PMIC - FULL, HALF-BRI	 <b>FDMF6821C</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 50A 40PQFN	 <b>FDMF8700</b> onsemi IC HALF BRIDGE DRVR 30A PWR88-56
 <b>FDMF6824B</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 55A 40PQFN	 <b>FDMF6821B</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 55A 40PQFN	 <b>FDMF8704</b> onsemi IC HALF BRIDGE DRVR 32A PWR88-56	 <b>FDMF6823</b> onsemi IC HALF BRIDGE DRIVER 60A 40PQFN	 <b>FDMF6824B</b> onsemi IC HALF BRIDGE DRIVER 55A 40PQFN	 <b>FDMF6840C</b> onsemi IC HALF BRIDGE DRIVER 50A 40PQFN
 <b>FDMF6824C</b> onsemi IC HALF BRIDGE DRIVER 50A 40PQFN	 <b>FDMF6823A</b> onsemi IC HALF BRIDGE DRIVER 60A 40PQFN	 <b>FDMF6840C</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 50A 40PQFN	 <b>FDMF6823B</b> onsemi IC HALF BRIDGE DRIVER 55A 40PQFN	 <b>FDMF6823A</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 60A 40PQFN	 <b>FDMF6823C</b> onsemi IC HALF BRIDGE DRIVER 50A 40PQFN

## 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



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