

Image may be representation.  
See specifications for product details.

## FDMF5833-F085

Manufacturer Part Number	<b>FDMF5833-F085</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FDMF5833-F085
ECAD Model	Request Free CAD Models
Parts Description	IC HALF BRIDGE DRIVER 50A 31PQFN
Package	31-PowerWFQFN
Data sheet	<b>FDMF5833.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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FDMF5833-F085 - onsemi.New Original in Stock. Download Linear Technology FDMF5833-F085 datasheet/specifications on AllelcoElec.com.  
Request a quote for FDMF5833-F085, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

FDMF5833-F085 Tech Specifications  
FDMF5833-F085 - 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	4.5V ~ 24V	Load Type	Inductive
Technology	UMOS	Interface	PWM
Supplier Device Package	31-PQFN (5x5)	Features	Bootstrap Circuit, Latch Function, Status Flag
Series	PowerTrench®, SyncFET™	Fault Protection	Over Temperature, UVLO
Rds On (Typ)	470mOhm LS, 680mOhm HS	Current - Peak Output	7A
Package / Case	31-PowerWFQFN	Current - Output / Channel	50A
Package	Tape & Reel (TR)	Base Product Number	FDMF5833
Output Configuration	Half Bridge	Applications	Synchronous Buck Converters

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDMF5833-F085

Product Attribute				
Part Number	FDMF5833-F085	FDMF6704	FDMF5821DC	FDMF5833
Manufacturer	onsemi	Fairchild Semiconductor	onsemi	onsemi
Load Type	Inductive	Inductive	Inductive	Inductive
Current - Peak Output	7A	80A	-	-
Technology	UMOS	DrMOS	UMOS	UMOS
Fault Protection	Over Temperature, UVLO	Shoot-Through, UVLO	Over Temperature, UVLO	Over Temperature, UVLO
Voltage - Supply	4.5V ~ 5.5V	4.5V ~ 5.5V	4.5V ~ 5.5V	4.5V ~ 5.5V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tape & Reel (TR)	Bulk	Tape & Reel (TR)	Tape & Reel (TR)
Applications	Synchronous Buck Converters	Synchronous Buck Converters	Synchronous Buck Converters	Synchronous Buck Converters
Supplier Device Package	31-PQFN (5x5)	40-MLP (6x6)	31-PQFN (5x5)	31-PQFN (5x5)
Output Configuration	Half Bridge	Half Bridge	Half Bridge	Half Bridge
Base Product Number	FDMF5833	FDMF6704	FDMF5821	FDMF5833
Current - Output / Channel	50A	35A	60A	50A
Package / Case	31-PowerWFQFN	40-WFQFN Exposed Pad	31-PowerWFQFN	31-PowerWFQFN
Operating Temperature	-40°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 150°C (TJ)
Series	PowerTrench®, SyncFET™	XS™ DrMOS	PowerTrench®, SyncFET™	PowerTrench®, SyncFET™
Voltage - Load	4.5V ~ 24V	3V ~ 14V	4.5V ~ 16V	4.5V ~ 24V
Features	Bootstrap Circuit, Latch Function, Status Flag	Bootstrap Circuit	Bootstrap Circuit, Latch Function, Status Flag	Bootstrap Circuit, Latch Function, Status Flag
Rds On (Typ)	470mOhm LS, 680mOhm HS	-	470mOhm LS, 680mOhm HS	470mOhm LS, 680mOhm HS
Interface	PWM	PWM	PWM	PWM

### FDMF5833-F085 Datasheet PDF

Download FDMF5833-F085 pdf datasheets and onsemi documentation for FDMF5833-F085 - onsemi.

#### Datasheets

[FDMF5833.pdf](#)

#### Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

#### PCN Assembly/Origin

Material Change 12/Dec/2022.pdf

### PCN Design/Specification



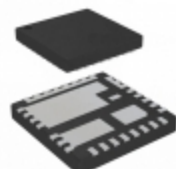


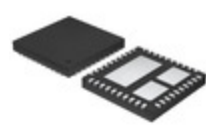
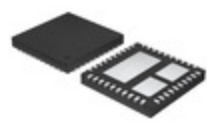
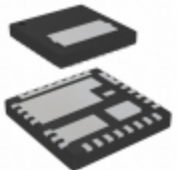
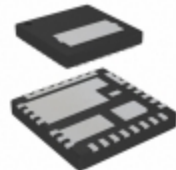

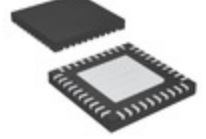
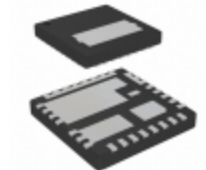


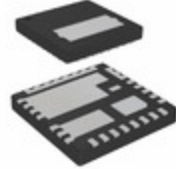
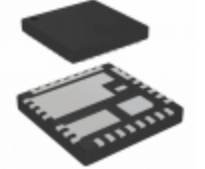

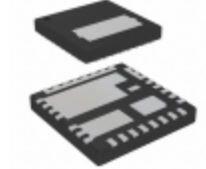
Update Driver IC 20/Oct/2021.pdf

### PCN Obsolescence/ EOL

EOL Notice 15/Dec/2022.pdf

## Customers Also Interested in

### Recommended Products

 <b>FDMF6704</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 35A 40MLP	 <b>FDMF5821DC</b> onsemi IC HALF BRIDGE DRIVER 60A 31PQFN	 <b>FDMF5833</b> onsemi IC HALF BRIDGE DRIVER 50A 31PQFN	 <b>FDMF5824</b> onsemi IC	 <b>FDMF5808</b> Fairchild Semiconductor FDMF5808	 <b>FDMF6700</b> Fairchild Semiconductor IC HALF BRIDGE DRVR 25A POWER66
 <b>FDMF6700</b> onsemi IC HALF BRIDGE DRVR 25A POWER66	 <b>FDMF5822DC</b> onsemi IC HALF BRIDGE DRIVER 55A 31PQFN	 <b>FDMF5826DC</b> onsemi IC HALF BRIDGE DRIVER 60A 31PQFN	 <b>FDMF5877</b> Fairchild (onsemi)	 <b>FDMF6704</b> onsemi IC HALF BRIDGE DRIVER 35A 40MLP	 <b>FDMF5823DC</b> onsemi IC HALF BRIDGE DRIVER 55A 31PQFN
 <b>FDMF5875</b> Fairchild (onsemi)	 <b>FDMF5839</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 35A 31PQFN	 <b>FDMF5826DC</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 60A 31PQFN	 <b>FDMF5839</b> onsemi IC HALF BRIDGE DRIVER 35A 31PQFN	 <b>FDMF5822DC</b> Fairchild Semiconductor IC HALF BRIDGE DRIVER 55A 31PQFN	 <b>FDMF5820DC</b> onsemi IC HALF BRIDGE DRIVER 60A 31PQFN

## 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.

 Phone +00852 9146 4856	 Email info@allelco.com
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### Certifications & Memberships



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