



# FDMC6686P

Manufacturer Part Number	<b>FDMC6686P</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FDMC6686P
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET P-CH 20V 18A/56A 8PQFN
Package	8-PowerWDFN
Data sheet	<b>FDMC6686P.pdf</b>
RoHs Status	ROHS3 Compliant



**Get a Quote**

FDMC6686P - onsemi.New Original in Stock. Download Linear Technology FDMC6686P datasheet/specifications on AllelcoElec.com.

Request a quote for FDMC6686P, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

FDMC6686P Tech Specifications

FDMC6686P - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	1V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±8V	Input Capacitance (Ciss) (Max) @ Vds	13200 pF @ 10 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	122 nC @ 4.5 V
Supplier Device Package	8-PQFN (3.3x3.3), Power33	FET Type	P-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	4mOhm @ 18A, 4.5V	Drive Voltage (Max Rds On, Min Rds On)	1.8V, 4.5V
Power Dissipation (Max)	2.3W (Ta), 40W (Tc)	Drain to Source Voltage (Vdss)	20 V
Package / Case	8-PowerWDFN	Current - Continuous Drain (Id) @ 25°C	18A (Ta), 56A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDMC6686

## Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDMC6686P

Product Attribute	NO PICTURE			
Part Number	FDMC6686P	FDMC6688P	FDMC6679AZ	FDMC6696P
Manufacturer	onsemi	onsemi	onsemi	onsemi
Package / Case	8-PowerWDFN	8-PowerWDFN	8-PowerWDFN	-
Drive Voltage (Max Rds On, Min Rds On)	1.8V, 4.5V	1.8V, 4.5V	4.5V, 10V	-
Power Dissipation (Max)	2.3W (Ta), 40W (Tc)	2.3W (Ta), 30W (Tc)	2.3W (Ta), 41W (Tc)	-
FET Feature	-	-	-	-
Base Product Number	FDMC6686	FDMC6688	FDMC6679	-
Mounting Type	Surface Mount	Surface Mount	Surface Mount	-
Vgs (Max)	±8V	±8V	±25V	-
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Bulk
Supplier Device Package	8-PQFN (3.3x3.3), Power33	8-PQFN (3.3x3.3), Power33	8-MLP (3.3x3.3)	-
Series	PowerTrench®	PowerTrench®	PowerTrench®	*
Drain to Source Voltage (Vdss)	20 V	20 V	30 V	-
Vgs(th) (Max) @ Id	1V @ 250µA	1V @ 250µA	3V @ 250µA	-
Input Capacitance (Ciss) (Max) @ Vds	13200 pF @ 10 V	7435 pF @ 10 V	3970 pF @ 15 V	-
Gate Charge (Qg) (Max) @ Vgs	122 nC @ 4.5 V	61 nC @ 4.5 V	91 nC @ 10 V	-
FET Type	P-Channel	P-Channel	P-Channel	-
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	-
Rds On (Max) @ Id, Vgs	4mOhm @ 18A, 4.5V	6.5mOhm @ 14A, 4.5V	10mOhm @ 11.5A, 10V	-
Current - Continuous Drain (Id) @ 25°C	18A (Ta), 56A (Tc)	14A (Ta), 56A (Tc)	11.5A (Ta), 20A (Tc)	-

## FDMC6686P Datasheet PDF

Download FDMC6686P pdf datasheets and onsemi documentation for FDMC6686P - onsemi.

### Datasheets

FDMC6686P.pdf

### Environmental Information

onsemi REACH.pdf

onsemi RoHS.pdf

### PCN Design/Specification




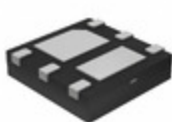













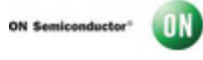
### PCN Packaging

### PCN Obsolescence/ EOL

### PCN Assembly/Origin

## Customers Also Interested in

### Recommended Products

 <b>FDMC7200S</b> onsemi MOSFET 2N-CH 30V 7A/13A 8POWER33	 <b>FDMC6688P</b> onsemi MOSFET P-CH 20V 14A/56A 8PQFN	 <b>FDMC6679AZ</b> onsemi MOSFET P-CH 30V 11.5A/20A 8MLP	 <b>FDMC6890NZ</b> onsemi MOSFET 2N-CH 20V 4A POWER33	 <b>FDMC6676BZ MOS</b> Fairchild (onsemi)	 <b>FDMC6679AZ MOS</b> AMI Semiconductor/onsemi
 <b>FDMC7200</b> Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI	 <b>FDMC6676BZ</b> Fairchild Semiconductor P-CHANNEL POWER TRENCH SYNCFET	 <b>FDMC6696P</b> onsemi FDMC6696 - P-CHANNEL POWERTRENCH	 <b>FDMC6890NZ</b> Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 4	 <b>FDMC6683PZ</b> onsemi MOSFET P-CH 20V 40A 8MLP	 <b>FDMC6675PZ</b> Fairchild (onsemi)
 <b>FDMC6683PZ</b> Fairchild Semiconductor 14A, 20V, 0.0084OHM, P-CHANNEL ,	 <b>FDMC6676PZ MOS</b> Fairchild (onsemi)	 <b>FDMC6683</b> Fairchild Semiconductor 14A, 20V, 0.0084OHM, P-CHANNEL P	 <b>FDMC7200S</b> Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI	 <b>FDMC6678BZ</b> Fairchild (onsemi)	 <b>FDMC7200</b> onsemi MOSFET 2N-CH 30V 6A/8A 8POWER33

## 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 -

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### Certifications & Memberships



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