



# FDMC86184

Manufacturer Part Number	<b>FDMC86184</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FDMC86184
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 100V 57A 8PQFN
Package	8-PowerWDFN
Data sheet	<b>FDMC86184.pdf</b>
RoHs Status	ROHS3 Compliant



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FDMC86184 - onsemi.New Original in Stock. Download Linear Technology FDMC86184 datasheet/specifications on AllelcoElec.com.

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## Specifications

FDMC86184 Tech Specifications

FDMC86184 - 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	4V @ 110µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	2090 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	20 nC @ 6 V
Supplier Device Package	8-PQFN (3.3x3.3)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	8.5mOhm @ 21A, 10V	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Power Dissipation (Max)	54W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	8-PowerWDFN	Current - Continuous Drain (Id) @ 25°C	57A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDMC86

## Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDMC86184

Product Attribute	NO PICTURE			
Part Number	FDMC86184	FDMC86106LZ	FDMC86259P	FDMC8622
Manufacturer	onsemi	Fairchild Semiconductor	onsemi	onsemi
Drive Voltage (Max Rds On, Min Rds On)	6V, 10V	-	6V, 10V	6V, 10V
Series	PowerTrench®	-	PowerTrench®	PowerTrench®
Rds On (Max) @ Id, Vgs	8.5mOhm @ 21A, 10V	103mOhm @ 3.3A, 10V	107mOhm @ 3A, 10V	56mOhm @ 4A, 10V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Input Capacitance (Ciss) (Max) @ Vds	2090 pF @ 50 V	310 pF @ 50 V	2045 pF @ 75 V	402 pF @ 50 V
Vgs (Max)	±20V	-	±25V	±20V
Current - Continuous Drain (Id) @ 25°C	57A (Tc)	3.3A (Ta), 7.5A (Tc)	3.2A (Ta), 13A (Tc)	4A (Ta), 16A (Tc)
Package	Tape & Reel (TR)	Bulk	Tape & Reel (TR)	Tape & Reel (TR)
FET Type	N-Channel	N-Channel	P-Channel	N-Channel
Supplier Device Package	8-PQFN (3.3x3.3)	8-MLP (3.3x3.3)	Power33	8-MLP (3.3x3.3)
Package / Case	8-PowerWDFN	8-PowerWDFN	8-PowerWDFN	8-PowerWDFN
Power Dissipation (Max)	54W (Tc)	2.3W (Ta), 19W (Tc)	2.3W (Ta), 62W (Tc)	2.5W (Ta), 31W (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drain to Source Voltage (Vdss)	100 V	100 V	150 V	100 V
Gate Charge (Qg) (Max) @ Vgs	20 nC @ 6 V	6 nC @ 10 V	32 nC @ 10 V	7.3 nC @ 10 V
Vgs(th) (Max) @ Id	4V @ 110µA	2.2V @ 250µA	4V @ 250µA	4V @ 250µA
Base Product Number	FDMC86	FDMC86	FDMC86259	FDMC86
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
FET Feature	-	-	-	-

## FDMC86184 Datasheet PDF

Download FDMC86184 pdf datasheets and onsemi documentation for FDMC86184 - onsemi.

### Datasheets

FDMC86184.pdf

### Environmental Information

onsemi REACH.pdf

onsemi RoHS.pdf








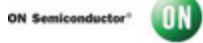
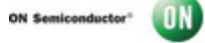

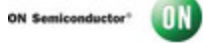
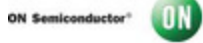


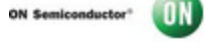
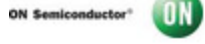
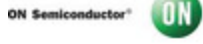
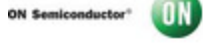
### PCN Design/Specification

## PCN Packaging

## PCN Assembly/Origin

## Customers Also Interested in

### Recommended Products

 <b>FDMC86106LZ</b> Fairchild Semiconductor MOSFET N-CH 100V 3.3A POWER33	 <b>FDMC86259P</b> onsemi MOSFET P-CH 150V 3.2A/13A PWR33	 <b>FDMC8622</b> onsemi MOSFET N-CH 100V 4A/16A 8MLP	 <b>FDMC86139P</b> onsemi MOSFET P-CH 100V 4.4A/15A 8MLP	 <b>FDMC86248</b> onsemi MOSFET N CH 150V 3.4A POWER33	 <b>FDMC86160</b> onsemi MOSFET N CH 100V 9A POWER33
 <b>FDMC86106LZ MOS</b> Fairchild (onsemi)	 <b>FDMC86244</b> onsemi MOSFET N-CH 150V 2.8A/9.4A 8MLP	 <b>FDMC86160ET100</b> onsemi MOSFET N-CH 100V 9A/43A POWER33	 <b>FDMC8622 MOS</b> Fairchild (onsemi)	 <b>FDMC86116LZ</b> onsemi MOSFET N-CH 100V 3.3A/7.5A 8MLP	 <b>FDMC86183</b> onsemi MOSFET N-CH 100V 47A 8PQFN
 <b>FDMC86160 MOS</b> Fairchild (onsemi)	 <b>FDMC86160ET</b> Fairchild (onsemi)	 <b>FDMC86260</b> onsemi MOSFET N CH 150V 5.4A POWER 33	 <b>FDMC86240</b> onsemi MOSFET N-CH 150V 4.6A/16A 8MLP	 <b>FDMC86261P</b> onsemi MOSFET P-CH 150V 2.7A/9A 8MLP	 <b>FDMC86106Z</b> AMI Semiconductor/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.



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