





FDMS86182

Manufacturer Part Number	FDMS86182
Manufacturer	onsemi
Allelco Part Number	32D-FDMS86182
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 100V 78A 8PQFN
Package	8-PowerTDFN
Data sheet	FDMS86182.pdf
RoHs Status	 ROHS3 Compliant



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Specifications





FDMS86182 Tech Specifications

FDMS86182 - 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 @ 150µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	2635 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	24 nC @ 6 V
Supplier Device Package	8-PQFN (5x6)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	7.2mOhm @ 28A, 10V	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Power Dissipation (Max)	83W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	8-PowerTDFN	Current - Continuous Drain (Id) @ 25°C	78A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDMS86

Parts with Similar Specifications


The three parts on the right have similar specifications to onsemi FDMS86182

Product Attribute	 NO PICTURE			
Part Number	FDMS86182	FDMS86200DC	FDMS86180	FDMS86201
Manufacturer	onsemi	onsemi	onsemi	onsemi
Rds On (Max) @ Id, Vgs	7.2mOhm @ 28A, 10V	17mOhm @ 9.3A, 10V	3.2mOhm @ 67A, 10V	11.5mOhm @ 11.6A, 10V
Supplier Device Package	8-PQFN (5x6)	8-PQFN (5x6)	Power56	8-PQFN (5x6)
Gate Charge (Qg) (Max) @ Vgs	24 nC @ 6 V	42 nC @ 10 V	54 nC @ 6 V	46 nC @ 10 V
Series	PowerTrench®	Dual Cool™, PowerTrench®	PowerTrench®	PowerTrench®
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Current - Continuous Drain (Id) @ 25°C	78A (Tc)	9.3A (Ta), 28A (Tc)	151A (Tc)	11.6A (Ta), 49A (Tc)
Drain to Source Voltage (Vdss)	100 V	150 V	100 V	120 V
Input Capacitance (Ciss) (Max) @ Vds	2635 pF @ 50 V	2955 pF @ 75 V	6215 pF @ 50 V	2735 pF @ 60 V
Power Dissipation (Max)	83W (Tc)	3.2W (Ta), 125W (Tc)	138W (Tc)	2.5W (Ta), 104W (Tc)
Base Product Number	FDMS86	FDMS86200	FDMS86	FDMS86
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
FET Feature	-	-	-	-
Package / Case	8-PowerTDFN	8-PowerTDFN	8-PowerTDFN	8-PowerTDFN
Vgs(th) (Max) @ Id	4V @ 150µA	4V @ 250µA	4V @ 370µA	4V @ 250µA
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drive Voltage (Max Rds On, Min Rds On)	6V, 10V	6V, 10V	6V, 10V	6V, 10V
Vgs (Max)	±20V	±20V	±20V	±20V


FDMS86182 Datasheet PDF


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Datasheets


FDMS86182.pdf

Environmental Information


onsemi REACH.pdf


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PCN Design/Specification

PCN Packaging







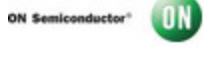
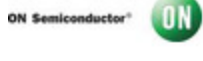
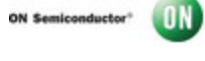


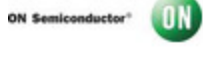




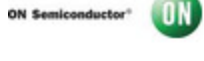

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PCN Assembly/Origin

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Recommended Products

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 FDMS86152 onsemi MOSFET N-CH 100V 14A/45A POWER56	 FDMS8622 onsemi MOSFET N-CH 100V 4.8A/16.5A 8QFN	 FDMS86181 onsemi MOSFET N-CH 100V 44A/124A 8PQFN	 FDMS8622 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 4	 FDMS86104 MOS Fairchild (onsemi)	 FDMS86163P onsemi MOSFET P-CH 100V 7.9A/50A 8PQFN
 FDMS86200 MOS Fairchild (onsemi)	 FDMS86152 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	 FDMS86202 onsemi MOSFET N-CH 120V 13.5A POWER56	 FDMS86183 onsemi MOSFET N-CH 100V 51A 8PQFN	 FDMS86150 onsemi MOSFET N CH 100V 16A POWER56	 FDMS86200 onsemi MOSFET N-CH 150V 9.6A/35A 8PQFN

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

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> 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.
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