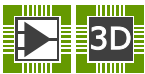





FDMC86116LZ

Manufacturer Part Number	FDMC86116LZ
Manufacturer	onsemi
Allelco Part Number	32D-FDMC86116LZ
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 100V 3.3A/7.5A 8MLP
Package	8-PowerWDFN
Data sheet	FDMC86116LZ.pdf
RoHs Status	 ROHS3 Compliant



Get a Quote

FDMC86116LZ - onsemi.New Original in Stock. Download Linear Technology FDMC86116LZ datasheet/specifications on AllelcoElec.com.

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Specifications





FDMC86116LZ Tech Specifications

FDMC86116LZ - 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	2.2V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	310 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	6 nC @ 10 V
Supplier Device Package	8-MLP (3.3x3.3)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	103mOhm @ 3.3A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	2.3W (Ta), 19W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	8-PowerWDFN	Current - Continuous Drain (Id) @ 25°C	3.3A (Ta), 7.5A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDMC86116

Parts with Similar Specifications


The three parts on the right have similar specifications to onsemi FDMC86116LZ

Product Attribute	 NO PICTURE			
Part Number	FDMC86116LZ	FDMC8588DC	FDMC86012	FDMC86183
Manufacturer	onsemi	onsemi	onsemi	onsemi
Power Dissipation (Max)	2.3W (Ta), 19W (Tc)	-	2.3W (Ta), 54W (Tc)	52W (Tc)
FET Type	N-Channel	-	N-Channel	N-Channel
Drain to Source Voltage (Vdss)	100 V	-	30 V	100 V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Vgs (Max)	±20V	-	±12V	±20V
Mounting Type	Surface Mount	-	Surface Mount	Surface Mount
FET Feature	-	-	-	-
Gate Charge (Qg) (Max) @ Vgs	6 nC @ 10 V	-	38 nC @ 4.5 V	21 nC @ 10 V
Operating Temperature	-55°C ~ 150°C (TJ)	-	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Rds On (Max) @ Id, Vgs	103mOhm @ 3.3A, 10V	-	2.7mOhm @ 23A, 4.5V	12.8mOhm @ 16A, 10V
Package / Case	8-PowerWDFN	-	8-PowerWDFN	8-PowerWDFN
Input Capacitance (Ciss) (Max) @ Vds	310 pF @ 50 V	-	5075 pF @ 15 V	1515 pF @ 50 V
Technology	MOSFET (Metal Oxide)	-	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Supplier Device Package	8-MLP (3.3x3.3)	-	Power33	8-PQFN (3.3x3.3), Power33
Base Product Number	FDMC86116	FDMC85	FDMC86	FDMC86
Current - Continuous Drain (Id) @ 25°C	3.3A (Ta), 7.5A (Tc)	-	23A (Ta)	47A (Tc)
Series	PowerTrench®	*	PowerTrench®	-
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	-	2.5V, 4.5V	6V, 10V
Vgs(th) (Max) @ Id	2.2V @ 250µA	-	1.5V @ 250µA	4V @ 90µA


FDMC86116LZ Datasheet PDF


Download FDMC86116LZ pdf datasheets and onsemi documentation for FDMC86116LZ - onsemi.

Datasheets


[FDMC86116LZ.pdf](#)


Environmental Information


[onsemi REACH.pdf](#)


[onsemi RoHS.pdf](#)

PCN Design/Specification


[FDMC86116LZ PCN Design/Specification.pdf](#)


[FDMC86116LZ PCN Design/Specification.pdf](#)

PCN Packaging

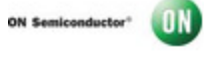






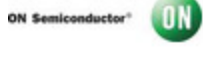

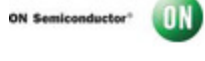


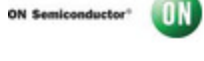





Mult Devices 24/Oct/2017.pdf

PCN Assembly/Origin

Capacity Expansion 12/Aug/2020.pdf

Customers Also Interested in

Recommended Products

 FDMC8588DC onsemi MOSFET N-CH 25V 40A POWER33	 FDMC86012 onsemi MOSFET N-CH 30V 23A POWER33	 FDMC86106Z AMI Semiconductor/onsemi	 FDMC86183 onsemi MOSFET N-CH 100V 47A 8PQFN	 FDMC8588DC Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	 FDMC86102LZ onsemi MOSFET N-CH 100V 7A/18A 8MLP
 FDMC86106LZ MOS Fairchild (onsemi)	 FDMC86184 onsemi MOSFET N-CH 100V 57A 8PQFN	 FDMC86160 MOS Fairchild (onsemi)	 FDMC86102 onsemi MOSFET N-CH 100V 7A/20A POWER33	 FDMC86102Z Fairchild (onsemi)	 FDMC86240 onsemi MOSFET N-CH 150V 4.6A/16A 8MLP
 FDMC86160ET100 onsemi MOSFET N-CH 100V 9A/43A POWER33	 FDMC86139P onsemi MOSFET P-CH 100V 4.4A/15A 8MLP	 FDMC86102L onsemi MOSFET N-CH 100V 7A/18A 8MLP	 FDMC86160 onsemi MOSFET N-CH 100V 9A POWER33	 FDMC86106LZ Fairchild Semiconductor MOSFET N-CH 100V 3.3A POWER33	 FDMC8622 onsemi MOSFET N-CH 100V 4A/16A 8MLP

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.

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