



FDMC86102L

Manufacturer Part Number	FDMC86102L
Manufacturer	onsemi
Allelco Part Number	32D-FDMC86102L
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 100V 7A/18A 8MLP
Package	8-PowerWDFN
Data sheet	FDMC86102L.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

FDMC86102L - onsemi.New Original in Stock. Download Linear Technology FDMC86102L datasheet/specifications on AllelcoElec.com.
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Specifications

FDMC86102L Tech Specifications

FDMC86102L - 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	3V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	1330 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	22 nC @ 10 V
Supplier Device Package	8-MLP (3.3x3.3)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	23mOhm @ 7A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	2.3W (Ta), 41W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	8-PowerWDFN	Current - Continuous Drain (Id) @ 25°C	7A (Ta), 18A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDMC86102

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDMC86102L

Product Attribute	NO PICTURE			
Part Number	FDMC86102L	FDMC86116LZ	FDMC8588DC	FDMC86012
Manufacturer	onsemi	onsemi	Fairchild Semiconductor	onsemi
FET Feature	-	-	-	-
Vgs(th) (Max) @ Id	3V @ 250µA	2.2V @ 250µA	1.8V @ 250µA	1.5V @ 250µA
Drain to Source Voltage (Vdss)	100 V	100 V	25 V	30 V
Base Product Number	FDMC86102	FDMC86116	-	FDMC86
Series	PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
Vgs (Max)	±20V	±20V	±12V	±12V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	2.5V, 4.5V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Gate Charge (Qg) (Max) @ Vgs	22 nC @ 10 V	6 nC @ 10 V	12 nC @ 4.5 V	38 nC @ 4.5 V
Power Dissipation (Max)	2.3W (Ta), 41W (Tc)	2.3W (Ta), 19W (Tc)	3W (Ta), 41W (Tc)	2.3W (Ta), 54W (Tc)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Bulk	Tape & Reel (TR)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	8-PowerWDFN	8-PowerWDFN	8-PowerTDFN	8-PowerWDFN
Current - Continuous Drain (Id) @ 25°C	7A (Ta), 18A (Tc)	3.3A (Ta), 7.5A (Tc)	17A (Ta), 40A (Tc)	23A (Ta)
Operating Temperature	-55°C ~ 150°C (TJ)	-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)	MOSFET (Metal Oxide)
Supplier Device Package	8-MLP (3.3x3.3)	8-MLP (3.3x3.3)	8-PQFN (3.3x3.3)	Power33
Rds On (Max) @ Id, Vgs	23mOhm @ 7A, 10V	103mOhm @ 3.3A, 10V	5mOhm @ 18A, 10V	2.7mOhm @ 23A, 4.5V
Input Capacitance (Ciss) (Max) @ Vds	1330 pF @ 50 V	310 pF @ 50 V	1695 pF @ 13 V	5075 pF @ 15 V

FDMC86102L Datasheet PDF

Download FDMC86102L pdf datasheets and onsemi documentation for FDMC86102L - onsemi.

Datasheets

[FDMC86102L.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)







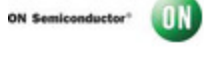
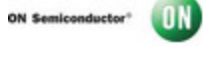


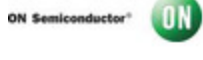

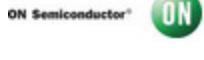





PCN Design/Specification

PCN Packaging

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 FDMC86116LZ onsemi MOSFET N-CH 100V 3.3A/7.5A 8MLP	 FDMC8588DC Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	 FDMC8588 MOS Fairchild (onsemi)	 FDMC86106LZ MOS Fairchild (onsemi)	 FDMC86012 onsemi MOSFET N-CH 30V 23A POWER33	 FDMC86102LZ onsemi MOSFET N-CH 100V 7A/18A 8MLP
 FDMC86160 onsemi MOSFET N-CH 100V 9A POWER33	 FDMC86139P onsemi MOSFET P-CH 100V 4.4A/15A 8MLP	 FDMC86102Z Fairchild (onsemi)	 FDMC8588 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	 FDMC8588A onsemi MOSFET N-CH	 FDMC8554 MOS Fairchild (onsemi)
 FDMC8588 onsemi MOSFET N-CH 25V 16.5A/40A PWR33	 FDMC8588DC onsemi MOSFET N-CH 25V 40A POWER33	 FDMC8554 onsemi MOSFET N-CH 20V 16.5A 8MLP	 FDMC86106Z AMI Semiconductor/onsemi	 FDMC86102 onsemi MOSFET N-CH 100V 7A/20A POWER33	 FDMC86106LZ Fairchild Semiconductor MOSFET N-CH 100V 3.3A POWER33

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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Certifications & Memberships



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