

Image may be representation.
See specifications for product details.

FDMA86108LZ

Manufacturer Part Number	FDMA86108LZ
Manufacturer	onsemi
Allelco Part Number	32D-FDMA86108LZ
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 100V 2.2A 6MICROFET
Package	6-WDFN Exposed Pad
Data sheet	FDMA86108LZ.pdf
RoHs Status	ROHS3 Compliant

Get a Quote



FDMA86108LZ - onsemi.New Original in Stock. Download Linear Technology FDMA86108LZ datasheet/specifications on AllelcoElec.com.
Request a quote for FDMA86108LZ, please send us email: info@allelco.com

Specifications

FDMA86108LZ Tech Specifications

FDMA86108LZ - 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	163 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	3 nC @ 10 V
Supplier Device Package	6-MicroFET (2x2)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	243mOhm @ 2.2A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	2.4W (Ta)	Drain to Source Voltage (Vdss)	100 V
Package / Case	6-WDFN Exposed Pad	Current - Continuous Drain (Id) @ 25°C	2.2A (Ta)
Package	Tape & Reel (TR)	Base Product Number	FDMA86108

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDMA86108LZ

Product Attribute				
Part Number	FDMA86108LZ	FDMA86551L	FDMA7670	FDMA86151L
Manufacturer	onsemi	Fairchild Semiconductor	Fairchild Semiconductor	onsemi
Rds On (Max) @ Id, Vgs	243mOhm @ 2.2A, 10V	23mOhm @ 7.5A, 10V	15mOhm @ 11A, 10V	88mOhm @ 3.3A, 10V
Gate Charge (Qg) (Max) @ Vgs	3 nC @ 10 V	17 nC @ 10 V	22 nC @ 10 V	7.3 nC @ 10 V
Series	PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
FET Feature	-	-	-	-
Package / Case	6-WDFN Exposed Pad	6-WDFN Exposed Pad	6-WDFN Exposed Pad	6-WDFN Exposed Pad
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds	163 pF @ 50 V	1235 pF @ 30 V	1360 pF @ 15 V	450 pF @ 50 V
Drain to Source Voltage (Vdss)	100 V	60 V	30 V	100 V
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)
Package	Tape & Reel (TR)	Bulk	Bulk	Tape & Reel (TR)
Power Dissipation (Max)	2.4W (Ta)	2.4W (Ta)	2.4W (Ta)	2.4W (Ta)
Vgs(th) (Max) @ Id	3V @ 250µA	3V @ 250µA	3V @ 250µA	3V @ 250µA
Vgs (Max)	±20V	±20V	±20V	±20V
Supplier Device Package	6-MicroFET (2x2)	6-MicroFET (2x2)	6-MicroFET (2x2)	6-MicroFET (2x2)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Base Product Number	FDMA86108	-	-	FDMA86151
Current - Continuous Drain (Id) @ 25°C	2.2A (Ta)	7.5A (Ta)	11A (Ta)	3.3A (Ta)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

FDMA86108LZ Datasheet PDF

Download FDMA86108LZ pdf datasheets and onsemi documentation for FDMA86108LZ - onsemi.

Datasheets

[FDMA86108LZ.pdf](#)

Environmental Information

[onsemi RoHS.pdf](#)

PCN Design/Specification



Logo 17/Aug/2017.pdf

PCN Packaging



Mult Devices 24/Oct/2017.pdf

PCN Assembly/Origin



Qualify 2nd supplier 13/Aug/2020.pdf

Customers Also Interested in

Recommended Products

FDMA86551L	FDMA7670	FDMA86151L	FDMA7670	FDMA8878	FDMA86551L	
Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI	Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI	onsemi MOSFET N-CH 100V 3.3A 6MICROFET	onsemi MOSFET N-CH 30V 11A 6MICROFET	onsemi MOSFET N-CH 30V 9A/10A 6MICROFET	onsemi MOSFET N-CH 60V 7.5A 6MICROFET	
FDMA8051L	FDMA7632	FDMA8051L	FDMA7670 MOS	FDMA86251	FDMA86108LZ	
onsemi MOSFET N-CH 40V 10A 6MICROFET	onsemi MOSFET N-CH 30V 9A 6MICROFET	Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI	Fairchild (onsemi)	onsemi MOSFET N-CH 150V 2.4A 6MICROFET	Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI	
FDMA7630	FDMA8884	FDMA86265P	FDMA7672	FDMA8884	FDMA7632 MOS	
onsemi MOSFET N-CH 30V 11A 6MICROFET	onsemi MOSFET N-CH 30V 6.5/8A 6MICROFET	onsemi MOSFET P-CH 150V 1A 6MICROFET	onsemi MOSFET N-CH 30V 9A 6MICROFET	Fairchild Semiconductor MOSFET N-CH 30V 6.5/8A 6MICROFET	Fairchild (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.

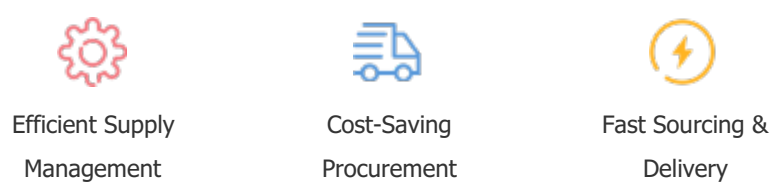
Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



+00852 9146 4856

info@allelco.com

Certifications & Memberships



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