

Image may be representation.
See specifications for product details.



FDD86102LZ

Manufacturer Part Number	FDD86102LZ
Manufacturer	onsemi
Allelco Part Number	32D-FDD86102LZ
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 100V 8A/35A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	FDD86102LZ.pdf
RoHs Status	ROHS3 Compliant

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FDD86102LZ - onsemi.New Original in Stock. Download Linear Technology FDD86102LZ datasheet/specifications on AllelcoElec.com.
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Specifications

FDD86102LZ Tech Specifications
FDD86102LZ - 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	1540 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	26 nC @ 10 V
Supplier Device Package	TO-252AA	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	22.5mOhm @ 8A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	3.1W (Ta), 54W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	8A (Ta), 35A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDD86102

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDD86102LZ

Product Attribute				
Part Number	FDD86102LZ	FDD8586	FDD8586	FDD86250
Manufacturer	onsemi	Fairchild Semiconductor	onsemi	onsemi
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	6V, 10V
Base Product Number	FDD86102	-	FDD858	FDD862
Vgs (Max)	±20V	±20V	±20V	±20V
Rds On (Max) @ Id, Vgs	22.5mOhm @ 8A, 10V	5.5mOhm @ 35A, 10V	5.5mOhm @ 35A, 10V	22mOhm @ 8A, 10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Feature	-	-	-	-
Current - Continuous Drain (Id) @ 25°C	8A (Ta), 35A (Tc)	35A (Tc)	35A (Tc)	8A (Ta), 50A (Tc)
Input Capacitance (Ciss) (Max) @ Vds	1540 pF @ 50 V	2480 pF @ 10 V	2480 pF @ 10 V	2110 pF @ 75 V
Series	PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
Supplier Device Package	TO-252AA	TO-252, (D-Pak)	TO-252AA	TO-252AA
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs(th) (Max) @ Id	3V @ 250µA	2.5V @ 250µA	2.5V @ 250µA	4V @ 250µA
Power Dissipation (Max)	3.1W (Ta), 54W (Tc)	77W (Tc)	77W (Tc)	3.1W (Ta), 132W (Tc)
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63
Gate Charge (Qg) (Max) @ Vgs	26 nC @ 10 V	48 nC @ 10 V	48 nC @ 10 V	33 nC @ 10 V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tape & Reel (TR)	Bulk	Tape & Reel (TR)	Tape & Reel (TR)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)
Drain to Source Voltage (Vdss)	100 V	20 V	20 V	150 V

FDD86102LZ Datasheet PDF

Download FDD86102LZ pdf datasheets and onsemi documentation for FDD86102LZ - onsemi.

Datasheets

[FDD86102LZ.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

PCN Design/Specification

Logo 17/Aug/2017.pdf

Description Chg 01/Apr/2016.pdf

PCN Packaging

Mult Devices 24/Oct/2017.pdf












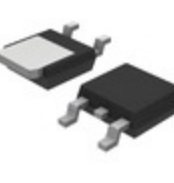

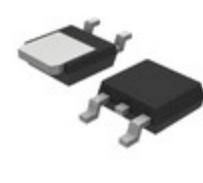



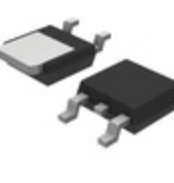
Tape and Box/Reel Barcode Update 07/Aug/2014.pdf

PCN Assembly/Origin

Assembly Change 28/May/2023.pdf

Customers Also Interested in

Recommended Products

					
FDD8586 Fairchild Semiconductor MOSFET N-CH 20V 35A TO252AA	FDD8586 MOS Fairchild (onsemi)	FDD850N10LD MOS Fairchild (onsemi)	FDD86113LZ MOS Fairchild (onsemi)	FDD86102LZ MOS Fairchild (onsemi)	FDD8586 onsemi MOSFET N-CH 20V 35A TO252AA
					
FDD86102 MOS Fairchild (onsemi)	FDD86250 MOS Fairchild (onsemi)	FDD8580 MOS Fairchild (onsemi)	FDD86250 onsemi MOSFET N-CH 150V 8A/50A DPAK	FDD8610Z Fairchild (onsemi)	FDD8610Z onsemi MOSFET N-CH 100V 8A/36A DPAK
					
FDD8580 onsemi MOSFET N-CH 20V 35A DPAK	FDD86110 onsemi MOSFET N-CH 100V 12.5A/50A DPAK	FDD850N10LD onsemi MOSFET N-CH 100V 15.3A TO252-4L	FDD86250-F085 onsemi MOSFET N-CH 150V 50A TO252	FDD86110 MOS Fairchild (onsemi)	FDD86113LZ onsemi MOSFET N-CH 100V 4.2A/5.5A DPAK

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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Contact us if you have any questions.

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