

Image may be representation.
See specifications for product details.



FDD86102

Manufacturer Part Number	FDD86102
Manufacturer	onsemi
Allelco Part Number	32D-FDD86102
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CH 100V 8A/36A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	FDD86102.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

FDD86102 - onsemi.New Original in Stock. Download Linear Technology FDD86102 datasheet/specifications on AllelcoElec.com.
Request a quote for FDD86102, please send us email: info@allelco.com

Specifications

FDD86102 Tech Specifications
FDD86102 - 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 @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	1035 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	19 nC @ 10 V
Supplier Device Package	TO-252AA	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	24mOhm @ 8A, 10V	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Power Dissipation (Max)	3.1W (Ta), 62W (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), 36A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDD861

Parts with Similar Specifications

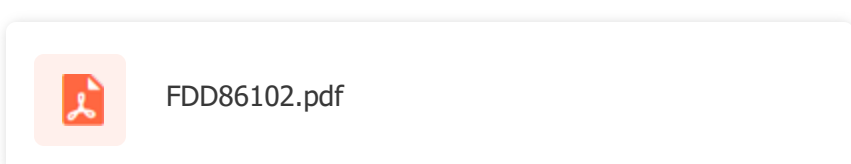
The three parts on the right have similar specifications to onsemi FDD86102

Product Attribute				
Part Number	FDD86102	FDD8586	FDD86113LZ	FDD8586
Manufacturer	onsemi	onsemi	onsemi	Fairchild Semiconductor
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Input Capacitance (Ciss) (Max) @ Vds	1035 pF @ 50 V	2480 pF @ 10 V	285 pF @ 50 V	2480 pF @ 10 V
Series	PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
Vgs(th) (Max) @ Id	4V @ 250µA	2.5V @ 250µA	3V @ 250µA	2.5V @ 250µA
Gate Charge (Qg) (Max) @ Vgs	19 nC @ 10 V	48 nC @ 10 V	6 nC @ 10 V	48 nC @ 10 V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Bulk
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
Vgs (Max)	±20V	±20V	±20V	±20V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)
Supplier Device Package	TO-252AA	TO-252AA	TO-252AA	TO-252, (D-Pak)
Rds On (Max) @ Id, Vgs	24mOhm @ 8A, 10V	5.5mOhm @ 35A, 10V	104mOhm @ 4.2A, 10V	5.5mOhm @ 35A, 10V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	FDD861	FDD858	FDD86113	-
Current - Continuous Drain (Id) @ 25°C	8A (Ta), 36A (Tc)	35A (Tc)	4.2A (Ta), 5.5A (Tc)	35A (Tc)
Drive Voltage (Max Rds On, Min Rds On)	6V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
Drain to Source Voltage (Vdss)	100 V	20 V	100 V	20 V
FET Feature	-	-	-	-
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Power Dissipation (Max)	3.1W (Ta), 62W (Tc)	77W (Tc)	3.1W (Ta), 29W (Tc)	77W (Tc)

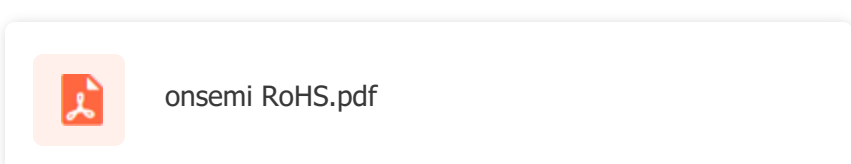
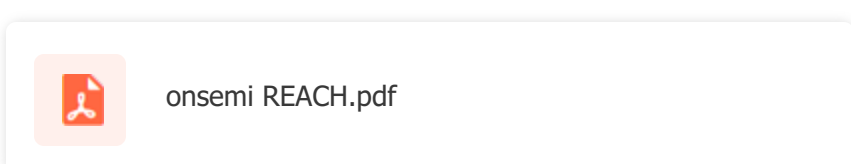
FDD86102 Datasheet PDF

Download FDD86102 pdf datasheets and onsemi documentation for FDD86102 - onsemi.

Datasheets



Environmental Information



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

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 -

Efficient Supply Management	Cost-Saving Procurement	Fast Sourcing & Delivery
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Contact us if you have any questions.

Phone +00852 9146 4856	Email info@allelco.com
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Certifications & Memberships



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