





# FDBL0150N80

Manufacturer Part Number	<b>FDBL0150N80</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FDBL0150N80
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 80V 300A 8HPSOF
Package	8-PowerSFN
Data sheet	<b>FDBL0150N80.pdf</b>
RoHs Status	 ROHS3 Compliant



**Get a Quote**

FDBL0150N80 - onsemi.New Original in Stock. Download Linear Technology FDBL0150N80 datasheet/specifications on AllelcoElec.com.

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## Specifications





FDBL0150N80 Tech Specifications

FDBL0150N80 - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	12800 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	188 nC @ 10 V
Supplier Device Package	8-HPSOF	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	1.4mOhm @ 80A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	429W (Tj)	Drain to Source Voltage (Vdss)	80 V
Package / Case	8-PowerSFN	Current - Continuous Drain (Id) @ 25°C	300A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDBL0150

## Parts with Similar Specifications

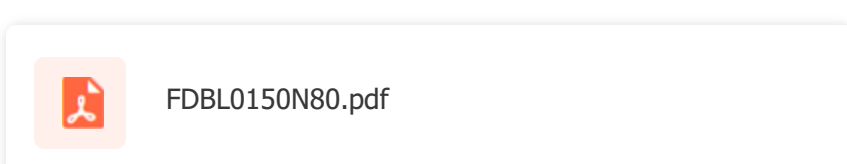
The three parts on the right have similar specifications to onsemi FDBL0150N80

Product Attribute	 NO PICTURE			
Part Number	FDBL0150N80	FDBL0120N40	FDBL0065N40	FDBL0330N80
Manufacturer	onsemi	onsemi	onsemi	onsemi
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Power Dissipation (Max)	429W (Tj)	300W (Tj)	429W (Tj)	300W (Tc)
Drain to Source Voltage (Vdss)	80 V	40 V	40 V	80 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	8-PowerSFN	8-PowerSFN	8-PowerSFN	8-PowerSFN
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Current - Continuous Drain (Id) @ 25°C	300A (Tc)	240A (Tc)	300A (Tc)	220A (Tc)
Series	PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
Vgs (Max)	±20V	±20V	±20V	±20V
Input Capacitance (Ciss) (Max) @ Vds	12800 pF @ 25 V	7735 pF @ 25 V	15900 pF @ 25 V	6320 pF @ 40 V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Rds On (Max) @ Id, Vgs	1.4mOhm @ 80A, 10V	1.2mOhm @ 80A, 10V	0.65mOhm @ 80A, 10V	3mOhm @ 80A, 10V
FET Feature	-	-	-	-
Base Product Number	FDBL0150	FDBL0120	FDBL0065	FDBL0330
Supplier Device Package	8-HPSOF	8-HPSOF	8-HPSOF	8-HPSOF
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	4V @ 250µA	4V @ 250µA
Gate Charge (Qg) (Max) @ Vgs	188 nC @ 10 V	107 nC @ 10 V	296 nC @ 10 V	112 nC @ 10 V

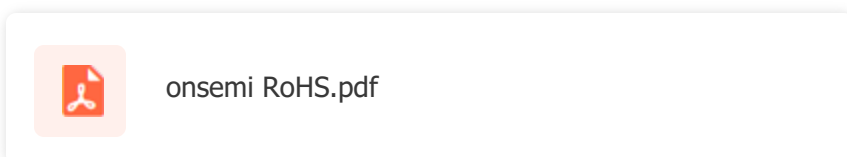
## FDBL0150N80 Datasheet PDF

Download FDBL0150N80 pdf datasheets and onsemi documentation for FDBL0150N80 - onsemi.

### Datasheets



### Environmental Information



### PCN Design/Specification



PCN Packaging










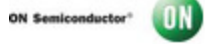
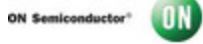
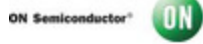






Mult Devices 24/Oct/2017.pdf

PCN Assembly/Origin

Wafer Fab Change 28/Sep/2021.pdf

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Recommended Products

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 <b>FDB9409</b> Fairchild (onsemi)	 <b>FDBL0090N40</b> Fairchild Semiconductor MOSFET N-CH 40V 240A 8HPSOF	 <b>FDBL0210N80</b> Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, N	 <b>FDBL86062-F085</b> onsemi MOSFET N-CH 100V 300A 8HPSOF	 <b>FDBL0210N80</b> onsemi MOSFET N-CH 80V 240A 8HPSOF	 <b>FDBL0090N40</b> onsemi MOSFET N-CH 40V 240A 8HPSOF
 <b>FDBL0260N100</b> onsemi MOSFET N-CH 100V 200A 8HPSOF	 <b>FDBL0200N100</b> onsemi MOSFET N-CH 100V 300A 8HPSOF	 <b>FDBL0120N40</b> Fairchild Semiconductor MOSFET N-CH 40V 240A 8HPSOF	 <b>FDBG670AL</b> Fairchild (onsemi)	 <b>FDBL0110N60</b> onsemi MOSFET N-CH 60V 300A 8HPSOF	 <b>FDB9406_F085</b> Fairchild (onsemi)

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Delivery Cost

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- (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.  
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