



Image may be representation.
See specifications for product details.



IRLB8314PBF

Manufacturer Part Number	IRLB8314PBF
Manufacturer	Infineon Technologies
Allelco Part Number	32D-IRLB8314PBF
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 30V 171A TO220-3
Package	TO-220-3
Data sheet	IRLB8314PBF.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

IRLB8314PBF - Infineon Technologies.New Original in Stock. Download Linear Technology IRLB8314PBF datasheet/specifications on AllelcoElec.com.
Request a quote for IRLB8314PBF, please send us email: info@allelco.com

Specifications

IRLB8314PBF Tech Specifications
IRLB8314PBF - Infineon Technologies technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Infineon Technologies	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	2.2V @ 100µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	5050 pF @ 15 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	60 nC @ 4.5 V
Supplier Device Package	TO-220-3	FET Type	N-Channel
Series	HEXFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	2.4mOhm @ 68A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	125W (Tc)	Drain to Source Voltage (Vdss)	30 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	171A (Tc)
Package	Tube	Base Product Number	IRLB8314

Parts with Similar Specifications

The three parts on the right have similar specifications to Infineon Technologies IRLB8314PBF

Product Attribute				
Part Number	IRLB8314PBF	IRLB3813PBF	IRLB8743PBF	IRLBA1304
Manufacturer	Infineon Technologies	Infineon Technologies	Infineon Technologies	Infineon Technologies
FET Feature	-	-	-	-
Gate Charge (Qg) (Max) @ Vgs	60 nC @ 4.5 V	86 nC @ 4.5 V	54 nC @ 4.5 V	140 nC @ 4.5 V
Vgs (Max)	±20V	±20V	±20V	±16V
Drain to Source Voltage (Vdss)	30 V	30 V	30 V	40 V
Rds On (Max) @ Id, Vgs	2.4mOhm @ 68A, 10V	1.95mOhm @ 60A, 10V	3.2mOhm @ 40A, 10V	4mOhm @ 110A, 10V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Power Dissipation (Max)	125W (Tc)	230W (Tc)	140W (Tc)	300W (Tc)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Input Capacitance (Ciss) (Max) @ Vds	5050 pF @ 15 V	8420 pF @ 15 V	5110 pF @ 15 V	7660 pF @ 25 V
Base Product Number	IRLB8314	IRLB3813	IRLB8743	IRLBA130
Supplier Device Package	TO-220-3	TO-220AB	TO-220AB	SUPER-220™ (TO-273AA)
Series	HEXFET®	HEXFET®	HEXFET®	HEXFET®
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-273AA
Vgs(th) (Max) @ Id	2.2V @ 100µA	2.35V @ 150µA	2.35V @ 100µA	1V @ 250µA
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Package	Tube	Tube	Tube	Tube
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Current - Continuous Drain (Id) @ 25°C	171A (Tc)	260A (Tc)	78A (Tc)	185A (Tc)

IRLB8314PBF Datasheet PDF

Download IRLB8314PBF pdf datasheets and Infineon Technologies documentation for IRLB8314PBF - Infineon Technologies.

Other Related Documents

Part Number Guide.pdf

PCN Assembly/Origin

Mult Dev Wafer Site Chg 18/Dec/2020.pdf


PCN Other

 Tube Pkg Qty Standardization 18/Aug/2016.pdf

PCN Packaging

 Tube Pkg Qty Std Rev 18/Aug/2016.pdf



















PCN Design/Specification

 Mult Dev No Format/Barcode Label 15/Jan/2019.pdf

 Mult Dev Label Chgs Aug/2020.pdf

Customers Also Interested in

Recommended Products

 NO PICTURE	 NO PICTURE	 NO PICTURE			
IRLBA3803PPBF IR	IRLBD59N04E IR	IRLB3813PBF MOS IR	IRLB3813PBF Infineon Technologies MOSFET N-CH 30V 260A TO220AB	IRLB8743PBF Infineon Technologies MOSFET N-CH 30V 78A TO220AB	IRLB4132 Cypress Semiconductor (Infineon Technologies)
	 NO PICTURE		 NO PICTURE		
IRLBA1304 Infineon Technologies MOSFET N-CH 40V 185A SUPER-220	IRLB8721 IR	IRLB8314 Cypress Semiconductor (Infineon Technologies)	IRLB4132 MOS IR	IRLB4030PBF Infineon Technologies MOSFET N-CH 100V 180A TO220AB	IRLB4132PBF Infineon Technologies MOSFET N-CH 30V 78A TO220AB
 NO PICTURE					
IRLB3813 IR	IRLB3036PBF Infineon Technologies MOSFET N-CH 60V 195A TO220AB	IRLBA3803P Infineon Technologies MOSFET N-CH 30V 179A SUPER-220	IRLB4030 Cypress Semiconductor (Infineon Technologies)	IRLB8721PBF Infineon Technologies MOSFET N-CH 30V 62A TO220AB	IRLB8748PBF Infineon Technologies MOSFET N-CH 30V 92A TO220AB

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

Contact us if you have any questions.

 Phone
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 Email
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Certifications & Memberships



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