





IRL80HS120

Manufacturer Part Number	IRL80HS120
Manufacturer	Infineon Technologies
Allelco Part Number	32D-IRL80HS120
ECAD Model	 PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 80V 12.5A 6PQFN
Package	6-PowerVDFN
Data sheet	IRL80HS120.pdf
RoHs Status	 ROHS3 Compliant



Get a Quote

IRL80HS120 - Infineon Technologies. New Original in Stock. Download Linear Technology IRL80HS120 datasheet/specifications on AllelcoElec.com.
Request a quote for IRL80HS120, please send us email: info@allelco.com

Specifications





IRL80HS120 Tech Specifications

IRL80HS120 - 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	2V @ 10µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	540 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	7 nC @ 4.5 V
Supplier Device Package	6-PQFN (2x2) (DFN2020)	FET Type	N-Channel
Series	-	FET Feature	-
Rds On (Max) @ Id, Vgs	32mOhm @ 7.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	11.5W (Tc)	Drain to Source Voltage (Vdss)	80 V
Package / Case	6-PowerVDFN	Current - Continuous Drain (Id) @ 25°C	12.5A (Tc)
Package	Tape & Reel (TR)	Base Product Number	IRL80HS120

Parts with Similar Specifications


The three parts on the right have similar specifications to Infineon Technologies IRL80HS120

Product Attribute	 NO PICTURE			
Part Number	IRL80HS120	IRL8113S	IRL8113SPBF	IRL7833LPBF
Manufacturer	Infineon Technologies	Infineon Technologies	Infineon Technologies	Infineon Technologies
Rds On (Max) @ Id, Vgs	32mOhm @ 7.5A, 10V	6mOhm @ 21A, 10V	6mOhm @ 21A, 10V	3.8mOhm @ 38A, 10V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
Vgs(th) (Max) @ Id	2V @ 10µA	2.25V @ 250µA	2.25V @ 250µA	2.3V @ 250µA
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drain to Source Voltage (Vdss)	80 V	30 V	30 V	30 V
Vgs (Max)	±20V	±20V	±20V	±20V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Power Dissipation (Max)	11.5W (Tc)	110W (Tc)	110W (Tc)	140W (Tc)
Series	-	HEXFET®	HEXFET®	HEXFET®
Base Product Number	IRL80HS120	-	-	-
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Input Capacitance (Ciss) (Max) @ Vds	540 pF @ 25 V	2840 pF @ 15 V	2840 pF @ 15 V	4170 pF @ 15 V
Gate Charge (Qg) (Max) @ Vgs	7 nC @ 4.5 V	35 nC @ 4.5 V	35 nC @ 4.5 V	47 nC @ 4.5 V
FET Feature	-	-	-	-
Package	Tape & Reel (TR)	Tube	Tube	Tube
Package / Case	6-PowerVDFN	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-262-3 Long Leads, I ² Pak, TO-262AA
Supplier Device Package	6-PQFN (2x2) (DFN2020)	D2PAK	D2PAK	TO-262
Current - Continuous Drain (Id) @ 25°C	12.5A (Tc)	105A (Tc)	105A (Tc)	150A (Tc)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Through Hole


IRL80HS120 Datasheet PDF

Download IRL80HS120 pdf datasheets and Infineon Technologies documentation for IRL80HS120 - Infineon Technologies.

Other Related Documents

 Part Number Guide.pdf

PCN Design/Specification



















 Mult Dev DC/Mark Chgs 20/Jul/2022.pdf

PCN Packaging

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 IRL8113S Infineon Technologies MOSFET N-CH 30V 105A D2PAK	 IRL8113SPBF Infineon Technologies MOSFET N-CH 30V 105A D2PAK	 IRL7833LPBF Infineon Technologies MOSFET N-CH 30V 150A TO262	 IRLAE702ST1 Murata Power Solutions	 IRL7833STRPBF IR	 IRL8113PBF onsemi HEXFET POWER MOSFET
 IRL7833PBF Infineon Technologies MOSFET N-CH 30V 150A TO220AB	 IRL7833S Infineon Technologies MOSFET N-CH 30V 150A D2PAK	 IRL7833L IR	 IRL8113PBF Infineon Technologies MOSFET N-CH 30V 105A TO220AB	 IRL7833PBF. VBsemi	 IRL7833SPBF Infineon Technologies MOSFET N-CH 30V 150A D2PAK
 IRL8114PBF International Rectifier MOSFET N-CH 30V 90A TO220AB	 IRL8113S MOS IR	 IRL8113 Infineon Technologies MOSFET N-CH 30V 105A TO220AB	 IRL7833STRLPBF Infineon Technologies MOSFET N-CH 30V 150A D2PAK	 IRL80A OSRAM	 IRL7833SPBF MOS IR

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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