



## **IRLB4132PBF Information**

Part Number IRLB4132PBF

Manufacturer Infineon Technologies

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 30V 78A TO220

Package TO-220-3

For the pricing/inventory/lead time, please contact

us

For Reference Only

Website: https://www.heisener.com
E-mail: salesdept@heisener.com



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# **IRLB4132PBF Specifications**

| Manufacturer Part NumberIRLB4132PBFManufacturerInfineon TechnologiesCategoryDiscrete Semiconductor ProductsFransistors - FETs, MOSFETs - SinglePackageTO-220-3SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C78A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.35V @ 100μAGate Charge (Qg) (Max) @ Vgs54nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5110pF @ 15VVgs (Max)±20VEET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3  |  |                                      |
|--|--|--------------------------------------|
| CategoryDiscrete Semiconductor ProductsFackageTO-220-3SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C78A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.35V @ 100μAGate Charge (Qg) (Max) @ Vgs54nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5110pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB  | Manufacturer Part Number               | IRLB4132PBF                          |
| PackageTo-220-3SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C78A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.35V @ 100μAGate Charge (Qg) (Max) @ Vgs54nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5110pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB   | Manufacturer                           | Infineon Technologies                |
| Package         TO-220-3           Series         HEXFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         78A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.35V @ 100μA           Gate Charge (Qg) (Max) @ Vgs         54nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         5110pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         140W (Tc)           Rds On (Max) @ Id, Vgs         3.5 mOhm @ 40A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220AB  | Category                               | Discrete Semiconductor Products      |
| SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C78A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.35V @ 100μAGate Charge (Qg) (Max) @ Vgs54nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5110pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB  |  | Transistors - FETs, MOSFETs - Single |
| FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C78A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.35V @ 100μAGate Charge (Qg) (Max) @ Vgs54nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5110pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB   | Package                                | TO-220-3                             |
| TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C78A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.35V @ 100μAGate Charge (Qg) (Max) @ Vgs54nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5110pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB  | Series                                 | HEXFET?                              |
| Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C78A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.35V @ 100μAGate Charge (Qg) (Max) @ Vgs54nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5110pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB  | FET Type                               | N-Channel                            |
| Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Cate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  3.5 mOhm @ 40A, 10V  Operating Temperature  Supplier Device Package  78A (Tc)  78A (  | Technology                             | MOSFET (Metal Oxide)                 |
| Drive Voltage (Max Rds On, Min Rds On)       4.5V, 10V         Vgs(th) (Max) @ Id       2.35V @ 100μA         Gate Charge (Qg) (Max) @ Vgs       54nC @ 4.5V         Input Capacitance (Ciss) (Max) @ Vds       5110pF @ 15V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       140W (Tc)         Rds On (Max) @ Id, Vgs       3.5 mOhm @ 40A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Through Hole         Supplier Device Package       TO-220AB  | Drain to Source Voltage (Vdss)         | 30V                                  |
| Vgs(th) (Max) @ Id       2.35V @ 100μA         Gate Charge (Qg) (Max) @ Vgs       54nC @ 4.5V         Input Capacitance (Ciss) (Max) @ Vds       5110pF @ 15V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       140W (Tc)         Rds On (Max) @ Id, Vgs       3.5 mOhm @ 40A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Through Hole         Supplier Device Package       TO-220AB   | Current - Continuous Drain (Id) @ 25°C | 78A (Tc)                             |
| Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  5110pF @ 15V  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  3.5 mOhm @ 40A, 10V  Operating Temperature  For C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220AB  | Drive Voltage (Max Rds On, Min Rds On) | 4.5V, 10V                            |
| Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Through Hole  Supplier Device Package  5110pF @ 15V  ±20V  5110pF @ 15V  ±20V  510pF @ 15V  ±20V  510pF @ 15V  510pF @ 15pF @ 15 | Vgs(th) (Max) @ Id                     | 2.35V @ 100μA                        |
| Vgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB  | Gate Charge (Qg) (Max) @ Vgs           | 54nC @ 4.5V                          |
| FET Feature - Power Dissipation (Max) 140W (Tc) Rds On (Max) @ Id, Vgs 3.5 mOhm @ 40A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB  | Input Capacitance (Ciss) (Max) @ Vds   | 5110pF @ 15V                         |
| Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  3.5 mOhm @ 40A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220AB  | Vgs (Max)                              | ±20V                                 |
| Rds On (Max) @ Id, Vgs3.5 mOhm @ 40A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220AB   | FET Feature                            | -                                    |
| Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-220AB   | Power Dissipation (Max)                | 140W (Tc)                            |
| Mounting Type Through Hole Supplier Device Package TO-220AB  | Rds On (Max) @ Id, Vgs                 | 3.5 mOhm @ 40A, 10V                  |
| Supplier Device Package TO-220AB   | Operating Temperature                  | -55°C ~ 175°C (TJ)                   |
|  | Mounting Type                          | Through Hole                         |
| Package / Case TO-220-3  | Supplier Device Package                | TO-220AB                             |
|  | Package / Case                         | TO-220-3                             |
| Report errors?   |  | Report errors?                       |

### **IRLB4132PBF Guarantees**



### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## **IRLB4132PBF Payment Methods**





















## **IRLB4132PBF Shipping Methods**













If you have any question about IRLB4132PBF, please do not hesitate to contact us!

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