



### **IRFB7746PBF Information**

Part Number IRFB7746PBF

Manufacturer Infineon Technologies

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 75V 59A TO220

TO-220-3 **Package** 

For the pricing/inventory/lead time, please contact

Website: https://www.heisener.com For Reference Only

E-mail: salesdept@heisener.com



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# **IRFB7746PBF Specifications**

Manufacturer Part Number         IRFB7746PBF           Manufacturer         Infineon Technologies           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-220-3           Series         StrongIRFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         59A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         6V, 10V           Vgs(th) (Max) @ Id         3.7V @ 100µA           Gate Charge (Qg) (Max) @ Vgs         83nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         3049pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         99W (Tc)           Rds On (Max) @ Id, Vgs         10.6 mOhm @ 35A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220AB           Package / Case         TO-220-3		
CategoryDiscrete Semiconductor ProductsPackageTO-220-3SeriesStrongIRFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)75VCurrent - Continuous Drain (Id) @ 25°C59A (Tc)Drive Voltage (Max Rds On, Min Rds On)6V, 10VVgs(th) (Max) @ Id3.7V @ 100μAGate Charge (Qg) (Max) @ Vgs83nC @ 10VInput Capacitance (Ciss) (Max) @ Vds3049pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)99W (Tc)Rds On (Max) @ Id, Vgs10.6 mOhm @ 35A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220AB	Manufacturer Part Number	IRFB7746PBF
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FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  75V  Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  10.6 mOhm @ 35A, 10V  Operating Temperature  Mounting Type  Supplier Device Package  Package / Case  N-Channel  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  75V  80SFET (Metal Oxide)  75V  8040  \$45	Package	TO-220-3
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 59A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 1nput Capacitance (Ciss) (Max) @ Vds Vgs (Max)  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 10.6 mOhm @ 35A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package Package / Case TO-220AB Package / Case	Series	StrongIRFET?
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Vgs(th) (Max) @ Id       3.7V @ 100μA         Gate Charge (Qg) (Max) @ Vgs       83nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       3049pF @ 25V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       99W (Tc)         Rds On (Max) @ Id, Vgs       10.6 mOhm @ 35A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Through Hole         Supplier Device Package       TO-220AB         Package / Case       TO-220-3	Current - Continuous Drain (Id) @ 25°C	59A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  +20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  10.6 mOhm @ 35A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220AB  Package / Case  TO-220-3	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  10.6 mOhm @ 35A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220AB  Package / Case  TO-220-3	Vgs(th) (Max) @ Id	3.7V @ 100μA
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Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220AB  Package / Case  TO-220-3	Power Dissipation (Max)	99W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Rds On (Max) @ Id, Vgs	10.6 mOhm @ 35A, 10V
Supplier Device Package TO-220AB Package / Case TO-220-3	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-220-3	Mounting Type	Through Hole
	Supplier Device Package	TO-220AB
Report errors?	Package / Case	TO-220-3
		Report errors?

#### **IRFB7746PBF 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.

## **IRFB7746PBF Payment Methods**

































If you have any question about IRFB7746PBF, please do not hesitate to contact us!

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