



## **IRFR3710ZPBF Information**



For Reference Only

Part Number IRFR3710ZPBF
Manufacturer Infineon Technologies

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 100V 42A DPAK

Package TO-252-3, DPak (2 Leads + Tab), SC-63

For the pricing/inventory/lead time, please contact

us

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



Request a Quote

# **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









## **IRFR3710ZPBF Specifications**

Manufacturer Part Number         IRFR3710ZPBF           Manufacturer         Infineon Technologies           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         HEXFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         42A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         100nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         2930pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         140W (Tc)           Rds On (Max) @ Id, Vgs         18 mOhm @ 33A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs100nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2930pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	IRFR3710ZPBF
Package         To-252-3, DPak (2 Leads + Tab), SC-63           Series         HEXFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         42A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         100nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         2930pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         140W (Tc)           Rds On (Max) @ Id, Vgs         18 mOhm @ 33A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Infineon Technologies
Package       TO-252-3, DPak (2 Leads + Tab), SC-63         Series       HEXFET?         FET Type       N-Channel         Technology       MOSFET (Metal Oxide)         Drain to Source Voltage (Vdss)       100V         Current - Continuous Drain (Id) @ 25°C       42A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       10V         Vgs(th) (Max) @ Id       4V @ 250μA         Gate Charge (Qg) (Max) @ Vgs       100nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       2930pF @ 25V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       140W (Tc)         Rds On (Max) @ Id, Vgs       18 mOhm @ 33A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       D-Pak         Package / Case       TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs100nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2930pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs100nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2930pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs100nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2930pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	HEXFET?
Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs100nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2930pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs100nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2930pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs100nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2930pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	100V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  +20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Found Temperature  Surplier Device Package  Package / Case  4V @ 250μA  4V @ 250μA  100nC @ 10V  2930pF @ 25V  +20V  FET Feature  - Nounting 33N, 10V  140W (Tc)  18 mOhm @ 33A, 10V  -55°C ~ 175°C (TJ)  Surface Mount  D-Pak  TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	42A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  2930pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  18 mOhm @ 33A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  2930pF @ 25V  Vgs (Max)  E20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  18 mOhm @ 33A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)140W (Tc)Rds On (Max) @ Id, Vgs18 mOhm @ 33A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	100nC @ 10V
FET Feature -  Power Dissipation (Max) 140W (Tc)  Rds On (Max) @ Id, Vgs 18 mOhm @ 33A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	2930pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  18 mOhm @ 33A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs  18 mOhm @ 33A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	140W (Tc)
Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	18 mOhm @ 33A, 10V
Supplier Device Package D-Pak Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	D-Pak
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### **IRFR3710ZPBF** 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.

## **IRFR3710ZPBF Payment Methods**



















## **IRFR3710ZPBF Shipping Methods**













If you have any question about IRFR3710ZPBF, please do not hesitate to contact us!

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