

# **IRFR3710ZTRPBF**

#### **IRFR3710ZTRPBF Information**



For Reference Only

Part Number IRFR3710ZTRPBF
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



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## **IRFR3710ZTRPBF** Specifications

Manufacturer Part Number         IRFR3710ZTRPBF           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 (TI)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63           Report errors?		
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	Manufacturer Part Number	IRFR3710ZTRPBF
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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
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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?
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Drive Voltage (Max Rds On, Min Rds On)  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  18 mOhm @ 33A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-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)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  18 mOhm @ 33A, 10V  Operating Temperature  Supplier Device Package  Package / Case  4V @ 250μA  100nC @ 10V  12930pF @ 25V  +20V  FET Feature  -  Supplier Device Package  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
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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, 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 Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  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?

#### **IRFR3710ZTRPBF** 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.

### **IRFR3710ZTRPBF Payment Methods**



















### **IRFR3710ZTRPBF Shipping Methods**













If you have any question about IRFR3710ZTRPBF, please do not hesitate to contact us!

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