

## **IRFR214TRRPBF**

## **IRFR214TRRPBF** Information



For Reference Only

Part Number IRFR214TRRPBF Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 250V 2.2A DPAK

**Package** TO-252-3, DPak (2 Leads + Tab), SC-63 For the pricing/inventory/lead time, please contact

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



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## **IRFR214TRRPBF Specifications**

Manufacturer Part Number         IRFR214TRRPBF           Manufacturer         Vishay Siliconix           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         250V           Current - Continuous Drain (Id) @ 25°C         2.2A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         8.2nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         140pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.5W (Ta), 25W (Tc)           Rds On (Max) @ Id, Vgs         2 Ohm @ 1.3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63           Report errors?		
CategoryDiscrete Semiconductor ProductsFackageTo-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)250VCurrent - Continuous Drain (Id) @ 25°C2.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250µAGate Charge (Qg) (Max) @ Vgs8.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds140pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.5W (Ta), 25W (Tc)Rds On (Max) @ Id, Vgs2 Ohm @ 1.3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	IRFR214TRRPBF
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         250V           Current - Continuous Drain (Id) @ 25°C         2.2A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         8.2nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         140pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.5W (Ta), 25W (Tc)           Rds On (Max) @ Id, Vgs         2 Ohm @ 1.3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Vishay Siliconix
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Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)250VCurrent - Continuous Drain (Id) @ 25°C2.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs8.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds140pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.5W (Ta), 25W (Tc)Rds On (Max) @ Id, Vgs2 Ohm @ 1.3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Roger (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Qohm @ 1.3A, 10V  Operating Temperature  Supplier Device Package  Package / Case  N-Channel  N-Channel  N-Channel  NOSFET (Metal Oxide)  MOSFET (Metal Oxide)  NOSFET (Metal Oxide)  250V  2.2A (Tc)  10V  4V @ 250μA  4V @ 250μA  4V @ 250μA  4V @ 250μA  5.2FW (Ξ10V  140pF @ 25V  2.2FW (Tc)  2.5W (Ta), 25W (Tc)  3.2FW (Tc)  3.2FW (Tc)  4.2FW (Tc)  4.2	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)250VCurrent - Continuous Drain (Id) @ 25°C2.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs8.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds140pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.5W (Ta), 25W (Tc)Rds On (Max) @ Id, Vgs2 Ohm @ 1.3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	-
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Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  10V  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  8.2nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  140pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.5W (Ta), 25W (Tc)  Rds On (Max) @ Id, Vgs  2 Ohm @ 1.3A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-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) @ Vgs8.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds140pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.5W (Ta), 25W (Tc)Rds On (Max) @ Id, Vgs2 Ohm @ 1.3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	250V
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  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  4V @ 250μA  4V @ 250μA  8.2nC @ 10V  140pF @ 25V  +20V  FET (Feature)  -20h  -30h  -	Current - Continuous Drain (Id) @ 25°C	2.2A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  140pF @ 25V  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.5W (Ta), 25W (Tc)  2.0hm @ 1.3A, 10V  Operating Temperature  -55°C ~ 150°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  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2 Ohm @ 1.3A, 10V  Operating Temperature  -55°C ~ 150°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) $\pm 20$ VFET Feature-Power Dissipation (Max) $2.5$ W (Ta), $25$ W (Tc)Rds On (Max) @ Id, Vgs $2$ Ohm @ $1.3$ A, $10$ VOperating Temperature $-55^{\circ}$ C $\sim 150^{\circ}$ C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	8.2nC @ 10V
FET Feature -  Power Dissipation (Max) 2.5W (Ta), 25W (Tc)  Rds On (Max) @ Id, Vgs 2 Ohm @ 1.3A, 10V  Operating Temperature -55°C ~ 150°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	140pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2 Ohm @ 1.3A, 10V  Operating Temperature  -55°C ~ 150°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, Vgs2 Ohm @ 1.3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 150°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)	2.5W (Ta), 25W (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	2 Ohm @ 1.3A, 10V
Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 150°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?

#### **IRFR214TRRPBF** 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.

### **IRFR214TRRPBF Payment Methods**





















## **IRFR214TRRPBF Shipping Methods**













If you have any question about IRFR214TRRPBF, please do not hesitate to contact us!

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