

# IRFR010TRLPBF

## **IRFR010TRLPBF** Information



For Reference Only

Part Number IRFR010TRLPBF Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 50V 8.2A 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.









## **IRFR010TRLPBF Specifications**

Manufacturer Part NumberIRFR010TRLPBFManufacturerVishay SiliconixCategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)50VCurrent - Continuous Drain (Id) @ 25°C8.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250µAGate Charge (Qg) (Max) @ Vgs10nC @ 10VInput Capacitance (Ciss) (Max) @ Vds250pF @ 25VYgs (Max)±20VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 4.6A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63Report errors?		
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) 50V Current - Continuous Drain (Id) @ 25°C 8.2A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 10nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 250pF @ 25V Vgs (Max) ±20V FET Feature Power Dissipation (Max) 25W (Tc) Rds On (Max) @ Id, Vgs 200 mOhm @ 4.6A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case	Manufacturer Part Number	IRFR010TRLPBF
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         50V           Current - Continuous Drain (Id) @ 25°C         8.2A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         10nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         250pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         25W (Tc)           Rds On (Max) @ Id, Vgs         200 mOhm @ 4.6A, 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
PackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)50VCurrent - Continuous Drain (Id) @ 25°C8.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs10nC @ 10VInput Capacitance (Ciss) (Max) @ Vds250pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 4.6A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         50V           Current - Continuous Drain (Id) @ 25°C         8.2A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         10nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         250pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         25W (Tc)           Rds On (Max) @ Id, Vgs         200 mOhm @ 4.6A, 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		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)50VCurrent - Continuous Drain (Id) @ 25°C8.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs10nC @ 10VInput Capacitance (Ciss) (Max) @ Vds250pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 4.6A, 10VOperating Temperature-55°C ~ 150°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)50VCurrent - Continuous Drain (Id) @ 25°C8.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs10nC @ 10VInput Capacitance (Ciss) (Max) @ Vds250pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 4.6A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	-
Drain to Source Voltage (Vdss)50VCurrent - Continuous Drain (Id) @ 25°C8.2A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs10nC @ 10VInput Capacitance (Ciss) (Max) @ Vds250pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 4.6A, 10VOperating Temperature-55°C ~ 150°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°C 8.2A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4V @ 250μA  Gate Charge (Qg) (Max) @ Vgs 10nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 250pF @ 25V  Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 25W (Tc)  Rds On (Max) @ Id, Vgs 200 mOhm @ 4.6A, 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	Technology	MOSFET (Metal Oxide)
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  Operating Temperature  Supplier Device Package  Package / Case  10nC @ 10V  250pF @ 25V  +20V  -250pF @ 25V  -200 mOhm @ 4.6A, 10V  -55°C ~ 150°C (TJ)  Surface Mount  D-Pak  TO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	50V
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  Supplier Device Package  Package / Case  4V @ 250μA  10nC @ 10V  250pF @ 25V  25V  Competition (Max)  25W (Tc)  25W (Tc)  200 mOhm @ 4.6A, 10V  -55°C ~ 150°C (TJ)  Surface Mount  Supplier Device Package  D-Pak  TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	8.2A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  250pF @ 25V  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  25W (Tc)  Rds On (Max) @ Id, Vgs  200 mOhm @ 4.6A, 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)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  200 mOhm @ 4.6A, 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)±20VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 4.6A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	10nC @ 10V
FET Feature -  Power Dissipation (Max) 25W (Tc)  Rds On (Max) @ Id, Vgs 200 mOhm @ 4.6A, 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	250pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  200 mOhm @ 4.6A, 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, Vgs200 mOhm @ 4.6A, 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  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	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	200 mOhm @ 4.6A, 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?

### **IRFR010TRLPBF 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.

## **IRFR010TRLPBF Payment Methods**





















### **IRFR010TRLPBF Shipping Methods**













If you have any question about IRFR010TRLPBF, please do not hesitate to contact us!

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