



## **IRFR1N60A Information**



For Reference Only

Part Number IRFR1N60A Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

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

**Description** MOSFET N-CH 600V 1.4A DPAK

For the pricing/inventory/lead time, please contact

us

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



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Package









# **IRFR1N60A Specifications**

Manufacturer Part Number         IRFR1N60A           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)         600V           Current - Continuous Drain (Id) @ 25°C         1.4A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         14nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         229pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         36W (Tc)           Rds On (Max) @ Id, Vgs         7 Ohm @ 840mA, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         Tenort errors 2		
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) 600V Current - Continuous Drain (Id) @ 25°C 1.4A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 14nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 229pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 36W (Tc) Rds On (Max) @ Id, Vgs 7 Ohm @ 840mA, 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 Part Number	IRFR1N60A
Package         To-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         1.4A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         14nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         229pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         36W (Tc)           Rds On (Max) @ Id, Vgs         7 Ohm @ 840mA, 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
Package       TO-252-3, DPak (2 Leads + Tab), SC-63         Series       -         FET Type       N-Channel         Technology       MOSFET (Metal Oxide)         Drain to Source Voltage (Vdss)       600V         Current - Continuous Drain (Id) @ 25°C       1.4A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       10V         Vgs(th) (Max) @ Id       4V @ 250μA         Gate Charge (Qg) (Max) @ Vgs       14nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       229pF @ 25V         Vgs (Max)       ±30V         FET Feature       -         Power Dissipation (Max)       36W (Tc)         Rds On (Max) @ Id, Vgs       7 Ohm @ 840mA, 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	Category	Discrete Semiconductor Products
Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Torain to Source Voltage (Vdss) 600V Current - Continuous Drain (Id) @ 25°C 1.4A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 14nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 229pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 36W (Tc) Rds On (Max) @ Id, Vgs 7 Ohm @ 840mA, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case Too's Case Table (School) 1000  MOSFET (Metal Oxide) (Move (School) (Move (Schoo		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C1.4A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs14nC @ 10VInput Capacitance (Ciss) (Max) @ Vds229pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)36W (Tc)Rds On (Max) @ Id, Vgs7 Ohm @ 840mA, 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)600VCurrent - Continuous Drain (Id) @ 25°C1.4A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs14nC @ 10VInput Capacitance (Ciss) (Max) @ Vds229pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)36W (Tc)Rds On (Max) @ Id, Vgs7 Ohm @ 840mA, 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)600VCurrent - Continuous Drain (Id) @ 25°C1.4A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs14nC @ 10VInput Capacitance (Ciss) (Max) @ Vds229pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)36W (Tc)Rds On (Max) @ Id, Vgs7 Ohm @ 840mA, 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  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  7 Ohm @ 840mA, 10V  Operating Temperature  Supplier Device Package  Package / Case  1.4A (Tc)  4.V @ 250µA  229pF @ 25V  25V  25V  25V  25V  25V  25V  25V	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs14nC @ 10VInput Capacitance (Ciss) (Max) @ Vds229pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)36W (Tc)Rds On (Max) @ Id, Vgs7 Ohm @ 840mA, 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)	600V
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  Found Temperature  Supplier Device Package  Package / Case  4V @ 250μA  4V @ 250μA  4V @ 250μA  4N @ 250μA  4N @ 250μA  4N @ 10V  229pF @ 25V  249μF @ 25V  250μC  270μ  280μC  29pF @ 25V  29pF @ 25V  29pF @ 25V  29pF @ 25V  20pF	Current - Continuous Drain (Id) @ 25°C	1.4A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  229pF @ 25V  Vgs (Max)  ±30V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7 Ohm @ 840mA, 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  229pF @ 25V  Vgs (Max)  ET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7 Ohm @ 840mA, 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)±30VFET Feature-Power Dissipation (Max)36W (Tc)Rds On (Max) @ Id, Vgs7 Ohm @ 840mA, 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	14nC @ 10V
FET Feature - Sower Dissipation (Max) 36W (Tc) Rds On (Max) @ Id, Vgs 7 Ohm @ 840mA, 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	229pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7 Ohm @ 840mA, 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)	±30V
Rds On (Max) @ Id, Vgs7 Ohm @ 840mA, 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)	36W (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	7 Ohm @ 840mA, 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
Papart arrors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
Report errors:		Report errors?

#### **IRFR1N60A** 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.

## **IRFR1N60A Payment Methods**





















## **IRFR1N60A Shipping Methods**













If you have any question about IRFR1N60A, please do not hesitate to contact us!

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