



IRFR420APBF Information



For Reference Only

Part Number IRFR420APBF **Manufacturer** Vishay Siliconix

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 500V 3.3A 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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IRFR420APBF Specifications

| Manufacturer Part Number IRFR420APBF 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) 500V Current - Continuous Drain (Id) @ 25°C 3.3A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.5V @ 250µA Gate Charge (Qg) (Max) @ Vgs 17nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 340P @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 83W (Tc) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 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 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) 500V Current - Continuous Drain (Id) @ 25°C 3.3A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.5V @ 250μA Gate Charge (Qg) (Max) @ Vgs 17nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 340pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 83W (Tc) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak | Manufacturer Part Number | IRFR420APBF |
| Package To-252-3, DPak (2 Leads + Tab), SC-63 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 500V Current - Continuous Drain (Id) @ 25°C 3.3A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.5V @ 250μA Gate Charge (Qg) (Max) @ Vgs 17nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 340pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 83W (Tc) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak | Manufacturer | Vishay Siliconix |
| Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series - N-Channel Technology N-Channel MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 500V Current - Continuous Drain (Id) @ 25°C 3.3A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.5V @ 250µA Gate Charge (Qg) (Max) @ Vgs 17nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 340pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 3Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak | Category | Discrete Semiconductor Products |
| Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C3.3A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 250μAGate Charge (Qg) (Max) @ Vgs17nC @ 10VInput Capacitance (Ciss) (Max) @ Vds340pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)83W (Tc)Rds On (Max) @ Id, Vgs3 Ohm @ 1.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak | | Transistors - FETs, MOSFETs - Single |
| FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 3.3A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id 4.5V @ 250μA Gate Charge (Qg) (Max) @ Vgs 17nC @ 10V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ±30V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package | Package | TO-252-3, DPak (2 Leads + Tab), SC-63 |
| TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C3.3A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 250μAGate Charge (Qg) (Max) @ Vgs17nC @ 10VInput Capacitance (Ciss) (Max) @ Vds340pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)83W (Tc)Rds On (Max) @ Id, Vgs3 Ohm @ 1.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak | Series | - |
| Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C3.3A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 250μAGate Charge (Qg) (Max) @ Vgs17nC @ 10VInput Capacitance (Ciss) (Max) @ Vds340pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)83W (Tc)Rds On (Max) @ Id, Vgs3 Ohm @ 1.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak | 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 17nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 340pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package | Technology | MOSFET (Metal Oxide) |
| Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 250μAGate Charge (Qg) (Max) @ Vgs17nC @ 10VInput Capacitance (Ciss) (Max) @ Vds340pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)83W (Tc)Rds On (Max) @ Id, Vgs3 Ohm @ 1.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak | Drain to Source Voltage (Vdss) | 500V |
| Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 17nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 340pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak | Current - Continuous Drain (Id) @ 25°C | 3.3A (Tc) |
| 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 17nC @ 10V 340pF @ 25V ±30V | Drive Voltage (Max Rds On, Min Rds On) | 10V |
| Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature Operating Type Surface Mount Supplier Device Package 340pF @ 25V 340pF @ 25V 340pF @ 25V 30V 530V 530V | Vgs(th) (Max) @ Id | 4.5V @ 250μA |
| Vgs (Max)±30VFET Feature-Power Dissipation (Max)83W (Tc)Rds On (Max) @ Id, Vgs3 Ohm @ 1.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak | Gate Charge (Qg) (Max) @ Vgs | 17nC @ 10V |
| FET Feature - Power Dissipation (Max) 83W (Tc) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak | Input Capacitance (Ciss) (Max) @ Vds | 340pF @ 25V |
| Power Dissipation (Max) Rds On (Max) @ Id, Vgs 3 Ohm @ 1.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak | Vgs (Max) | ±30V |
| Rds On (Max) @ Id, Vgs3 Ohm @ 1.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak | FET Feature | - |
| Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak | Power Dissipation (Max) | 83W (Tc) |
| Mounting TypeSurface MountSupplier Device PackageD-Pak | Rds On (Max) @ Id, Vgs | 3 Ohm @ 1.5A, 10V |
| Supplier Device Package D-Pak | Operating Temperature | -55°C ~ 150°C (TJ) |
| | Mounting Type | Surface Mount |
| Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63 | Supplier Device Package | D-Pak |
| | Package / Case | TO-252-3, DPak (2 Leads + Tab), SC-63 |
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IRFR420APBF 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.

IRFR420APBF Payment Methods



















IRFR420APBF Shipping Methods













If you have any question about IRFR420APBF, please do not hesitate to contact us!

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