



IRF5851TRPBF Information



For Reference Only

Part Number IRF5851TRPBF
Manufacturer Infineon Technologies

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Arrays

Description MOSFET N/P-CH 20V 2.7A 6-TSOP

Package SOT-23-6 Thin, TSOT-23-6

For the pricing/inventory/lead time, please contact

us

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IRF5851TRPBF Specifications

| Manufacturer Part Number Manufacturer Infineon Technologies Discrete Semiconductor Products Transistors - FETs, MOSFETs - Arrays Package SOT-23-6 Thin, TSOT-23-6 Series HEXFET? FET Type N and P-Channel FET Feature Logic Level Gate Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Rds On (Max) @ Id, Vgs Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Power - Max Operating Temperature Package / Case Poiscrete Semiconductor Products Infineon Technologies Linfineon Technologies Lingines Lingi | • | |
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| Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Arrays Package SOT-23-6 Thin, TSOT-23-6 Series HEXFET? FET Type N and P-Channel FET Feature Logic Level Gate Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Rds On (Max) @ Id, Vgs 90 mOhm @ 2.7A, 4.5V Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Power - Max Operating Temperature Observed Discrete Semiconductor Products Transistors - FETs, MOSFETs - Arrays SOT-23-6 HEXFET? N and P-Channel Logic Level Gate 2.7A, 2.2A 90 mOhm @ 2.7A, 4.5V 1.25V @ 250µA Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Power - Max Operating Temperature -55°C ~ 150°C (TJ) Mounting Type | Manufacturer Part Number | IRF5851TRPBF |
| Transistors - FETs, MOSFETs - Arrays Package SOT-23-6 Thin, TSOT-23-6 Series HEXFET? FET Type N and P-Channel Logic Level Gate Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Rds On (Max) @ Id, Vgs 90 mOhm @ 2.7A, 4.5V Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Power - Max Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount | Manufacturer | Infineon Technologies |
| PackageSOT-23-6 Thin, TSOT-23-6SeriesHEXFET?FET TypeN and P-ChannelFET FeatureLogic Level GateDrain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C2.7A, 2.2ARds On (Max) @ Id, Vgs90 mOhm @ 2.7A, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs6nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds400pF @ 15VPower - Max960mWOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface Mount | Category | Discrete Semiconductor Products |
| SeriesHEXFET?FET TypeN and P-ChannelFET FeatureLogic Level GateDrain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C2.7A, 2.2ARds On (Max) @ Id, Vgs90 mOhm @ 2.7A, 4.5VVgs(th) (Max) @ Id1.25V @ 250µAGate Charge (Qg) (Max) @ Vgs6nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds400pF @ 15VPower - Max960mWOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface Mount | | Transistors - FETs, MOSFETs - Arrays |
| FET Type FET Type Logic Level Gate Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Rds On (Max) @ Id, Vgs 90 mOhm @ 2.7A, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250μA Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Power - Max Operating Temperature Operating Type N and P-Channel Logic Level Gate 2.7A, 2.2A 8.5V 6.7 (2.7A, 2.2A 90 mOhm @ 2.7A, 4.5V 1.25V @ 250μA 6.7 (2.7A) 6.7 (2. | Package | SOT-23-6 Thin, TSOT-23-6 |
| FET Feature Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Rds On (Max) @ Id, Vgs 90 mOhm @ 2.7A, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250μA Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Power - Max Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Logic Level Gate 20V 2.7A, 2.2A 8.6N 2.7A, 2.2A 90 mOhm @ 2.7A, 4.5V 4.5 | Series | HEXFET? |
| Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C2.7A, 2.2ARds On (Max) @ Id, Vgs90 mOhm @ 2.7A, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs6nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds400pF @ 15VPower - Max960mWOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface Mount | FET Type | N and P-Channel |
| Current - Continuous Drain (Id) @ 25°C 2.7A, 2.2A Rds On (Max) @ Id, Vgs 90 mOhm @ 2.7A, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250μA Gate Charge (Qg) (Max) @ Vgs 6nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 400pF @ 15V Power - Max 960mW Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount | FET Feature | Logic Level Gate |
| Rds On (Max) @ Id, Vgs 90 mOhm @ 2.7A, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250μA Gate Charge (Qg) (Max) @ Vgs 6nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 400pF @ 15V Power - Max 960mW Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount | Drain to Source Voltage (Vdss) | 20V |
| Vgs(th) (Max) @ Id | Current - Continuous Drain (Id) @ 25°C | 2.7A, 2.2A |
| Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 400pF @ 15V Power - Max 960mW Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount | Rds On (Max) @ Id, Vgs | 90 mOhm @ 2.7A, 4.5V |
| Input Capacitance (Ciss) (Max) @ Vds 400pF @ 15V Power - Max 960mW Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount | Vgs(th) (Max) @ Id | 1.25V @ 250μA |
| Power - Max 960mW Operating Temperature $-55^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)Mounting TypeSurface Mount | Gate Charge (Qg) (Max) @ Vgs | 6nC @ 4.5V |
| Operating Temperature $-55^{\circ}\text{C} \sim 150^{\circ}\text{C} \text{ (TJ)}$ Mounting Type Surface Mount | Input Capacitance (Ciss) (Max) @ Vds | 400pF @ 15V |
| Mounting Type Surface Mount | Power - Max | 960mW |
| C 71 | Operating Temperature | -55°C ~ 150°C (TJ) |
| Package / Case SOT-23-6 Thin TSOT-23-6 | Mounting Type | Surface Mount |
| 1 deruge / Case 501-25-0 11111, 1501-25-0 | Package / Case | SOT-23-6 Thin, TSOT-23-6 |
| Supplier Device Package 6-TSOP | Supplier Device Package | 6-TSOP |
| Report errors? | | Report errors? |

IRF5851TRPBF 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.

IRF5851TRPBF Payment Methods



















IRF5851TRPBF Shipping Methods













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