



RSQ045N03TR Information



For Reference Only

Part Number RSQ045N03TR

Manufacturer Rohm Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 30V 4.5A TSMT6

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

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.









RSQ045N03TR Specifications

| Manufacturer Part Number RSQ045N03TR Manufacturer Rohm Semiconductor Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package SOT-23-6 Thin, TSOT-23-6 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4V, 10V Vgs(th) (Max) @ Id 2.5V @ ImA Gate Charge (Qg) (Max) @ Vgs 9.5nC @ 5V Input Capacitance (Ciss) (Max) @ Vds 520pF @ 10V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 600mW (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | | |
|--|--|--------------------------------------|
| Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package SOT-23-6 Thin, TSOT-23-6 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Ourrent - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds S20pF @ 10V Vgs (Max) #20V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature MOSFET (Metal Oxide) Drive Voltage (Max) @ Vds #20V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case | Manufacturer Part Number | RSQ045N03TR |
| Package SOT-23-6 Thin, TSOT-23-6 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4V, 10V Vgs(th) (Max) @ Id 2.5V @ 1mA Gate Charge (Qg) (Max) @ Vgs 9.5nC @ 5V Input Capacitance (Ciss) (Max) @ Vds 520pF @ 10V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 600mW (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Manufacturer | Rohm Semiconductor |
| Package SOT-23-6 Thin, TSOT-23-6 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4V, 10V Vgs(th) (Max) @ Id 2.5V @ ImA Gate Charge (Qg) (Max) @ Vgs 9.5nC @ 5V Input Capacitance (Ciss) (Max) @ Vds 520pF @ 10V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 600mW (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Category | Discrete Semiconductor Products |
| Series - Channel FET Type N-Channel Technology MOSFET (Metal Oxide) Jorain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4V, 10V Vgs(th) (Max) @ Id 2.5V @ 1mA Gate Charge (Qg) (Max) @ Vgs 9.5nC @ 5V Input Capacitance (Ciss) (Max) @ Vds 520pF @ 10V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 600mW (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 7SMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | | Transistors - FETs, MOSFETs - Single |
| FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id 3.5V @ ImA Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case | Package | SOT-23-6 Thin, TSOT-23-6 |
| Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) **E20V** FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature Mounting Type Surface Mount Supplier Device Package Package / Case MOSFET (Metal Oxide) 30V MOSFET (Metal Oxide) 30V 60V 4.5A (Ta) 4.5A (Ta) 4.5A (Ta) 4.5A (Ta) 4.5A (Ta) 4.5A (Ta) 6.5V 6 ImA 6.5V 6 ImA 6 2.5V @ 1mA 6 10V 2.5V @ 1mA 6 2.5V @ 1mA 6 2.5V @ 10V 4.5D (| Series | - |
| Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature Mounting Type Surface Mount Supplier Device Package Package / Case SOT-23-6 Thin, TSOT-23-6 | FET Type | N-Channel |
| Current - Continuous Drain (Id) @ 25°C Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) Ygs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature Mounting Type Surface Mount Supplier Device Package Package / Case 4.5A (Ta) 6.5V 6.5V 6.5V 6.5V 6.60PF @ 10V 6.60PF @ 10V 7.60PF @ 10 | Technology | MOSFET (Metal Oxide) |
| Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Sam Ohm @ 4.5A, 10V Operating Temperature Mounting Type Surface Mount Supplier Device Package Package / Case AV, 10V 2.5V @ 1mA 2.5V @ 1mA 6.5V 6.5U 6.5V 6.5U 6.5V 6.5V 6.5U 6.5V 6.5U 6.5V 6.5U 6.5U 6.5V 6.5U | Drain to Source Voltage (Vdss) | 30V |
| 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 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case SOT-23-6 Thin, TSOT-23-6 | Current - Continuous Drain (Id) @ 25°C | 4.5A (Ta) |
| Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 520pF @ 10V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Drive Voltage (Max Rds On, Min Rds On) | 4V, 10V |
| Input Capacitance (Ciss) (Max) @ Vds 520pF @ 10V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Vgs(th) (Max) @ Id | 2.5V @ 1mA |
| Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 600mW (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Gate Charge (Qg) (Max) @ Vgs | 9.5nC @ 5V |
| FET Feature - Power Dissipation (Max) 600mW (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Input Capacitance (Ciss) (Max) @ Vds | 520pF @ 10V |
| Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 4.5A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Vgs (Max) | ±20V |
| Rds On (Max) @ Id, Vgs38 mOhm @ 4.5A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTSMT6 (SC-95)Package / CaseSOT-23-6 Thin, TSOT-23-6 | FET Feature | - |
| Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Power Dissipation (Max) | 600mW (Ta) |
| Mounting Type Surface Mount Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Rds On (Max) @ Id, Vgs | 38 mOhm @ 4.5A, 10V |
| Supplier Device Package TSMT6 (SC-95) Package / Case SOT-23-6 Thin, TSOT-23-6 | Operating Temperature | 150°C (TJ) |
| Package / Case SOT-23-6 Thin, TSOT-23-6 | Mounting Type | Surface Mount |
| | Supplier Device Package | TSMT6 (SC-95) |
| Report errors? | Package / Case | SOT-23-6 Thin, TSOT-23-6 |
| | | Report errors? |

RSQ045N03TR 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.

RSQ045N03TR Payment Methods



















RSQ045N03TR Shipping Methods













If you have any question about RSQ045N03TR, please do not hesitate to contact us!

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