



### **RSF010P05TL Information**



For Reference Only

Part Number RSF010P05TL

Manufacturer Rohm Semiconductor

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET P-CH 45V 1A TUMT3

Package 3-SMD, Flat Leads

For the pricing/inventory/lead time, please contact

us

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



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# **Certified Quality**

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## **RSF010P05TL Specifications**

Manufacturer Part NumberRSF010P0STLManufacturerRohm SemiconductorCategoryDiscrete Semiconductor Products Transistors - FETs, MOSFETs - SinglePackage3-SMD, Flat LeadsSeries-FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)45VCurrent - Continuous Drain (Id) @ 25°C1A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 10VVgs(th) (Max) @ Id2.5V @ ImAGate Charge (Qg) (Max) @ Vgs2.3nC @ 5VInput Capacitance (Ciss) (Max) @ Vds160pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)800mW (Ta)Rds On (Max) @ Id, Vgs460 mOhm @ 1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTUMT3Package / Case3-SMD, Flat LeadsReport errors?		
Category  Discrete Semiconductor Products  Transistors - FETs, MOSFETs - Single  3-SMD, Flat Leads  Series  - FET Type  P-Channel  Technology  MOSFET (Metal Oxide)  Torin to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  1A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  160pF @ 10V  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  A60 mOhm @ 1A, 10V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  TUMT3  Package / Case	Manufacturer Part Number	RSF010P05TL
Package         3-SMD, Flat Leads           Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         45V           Current - Continuous Drain (Id) @ 25°C         1A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 10V           Vgs(th) (Max) @ Id         2.5V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         2.3nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         160pF @ 10V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         800mW (Ta)           Rds On (Max) @ Id, Vgs         460 mOhm @ 1A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TUMT3           Package / Case         3-SMD, Flat Leads	Manufacturer	Rohm Semiconductor
Package3-SMD, Flat LeadsSeries-FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)45VCurrent - Continuous Drain (Id) @ 25°C1A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 10VVgs(th) (Max) @ Id2.5V @ 1mAGate Charge (Qg) (Max) @ Vgs2.3nC @ 5VInput Capacitance (Ciss) (Max) @ Vds160pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)800mW (Ta)Rds On (Max) @ Id, Vgs460 mOhm @ 1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTUMT3Package / Case3-SMD, Flat Leads	Category	Discrete Semiconductor Products
Series-FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)45VCurrent - Continuous Drain (Id) @ 25°C1A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 10VVgs(th) (Max) @ Id2.5V @ 1mAGate Charge (Qg) (Max) @ Vgs2.3nC @ 5VInput Capacitance (Ciss) (Max) @ Vds160pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)800mW (Ta)Rds On (Max) @ Id, Vgs460 mOhm @ 1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTUMT3Package / Case3-SMD, Flat Leads		Transistors - FETs, MOSFETs - Single
FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)45VCurrent - Continuous Drain (Id) @ 25°C1A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 10VVgs(th) (Max) @ Id2.5V @ 1mAGate Charge (Qg) (Max) @ Vgs2.3nC @ 5VInput Capacitance (Ciss) (Max) @ Vds160pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)800mW (Ta)Rds On (Max) @ Id, Vgs460 mOhm @ 1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTUMT3Package / Case3-SMD, Flat Leads	Package	3-SMD, Flat Leads
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  1A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  160pF @ 10V  Vgs (Max)  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  TUMT3  Package / Case  MAX (Ta)  Mounting Type  MOSFET (Metal Oxide)  45V  MOSFET (Metal Oxide)  45V  45V  46V  46V  160pF @ 10V  47V  48V  48V  48V  48V  48OmW (Ta)  48OmW (Ta)  48OmOhm @ 1A, 10V  48OmOhm @	Series	-
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  1A (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)  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  1A (Ta)  1A	FET Type	P-Channel
Current - Continuous Drain (Id) @ 25°C Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id 2.5V @ 1mA Gate Charge (Qg) (Max) @ Vgs 2.3nC @ 5V Input Capacitance (Ciss) (Max) @ Vds 160pF @ 10V  Vgs (Max)  **EUV  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 460 mOhm @ 1A, 10V  Operating Temperature  Mounting Type Surface Mount  Supplier Device Package TUMT3 Package / Case  1A (Ta)  4V, 10V  1.50v (10V  1.50v (TJ)  1.50v	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  A60 mOhm @ 1A, 10V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  TUMT3  Package / Case  A25V @ 1mA  2.5V @ 1mA  2.5V @ 1mA  2.5V @ 1mA  2.5V @ 1mA  2.6V  50PF @ 10V  40PF @ 10V  40	Drain to Source Voltage (Vdss)	45V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  160pF @ 10V  Vgs (Max)  Ygs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  2.5V @ 1mA  2.5V @ 1mA  2.3nC @ 5V  160pF @ 10V  +20V  FET Feature  -  Power Dissipation (Max)  800mW (Ta)  460 mOhm @ 1A, 10V  5urface Mount  TUMT3  3-SMD, Flat Leads	Current - Continuous Drain (Id) @ 25°C	1A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  160pF @ 10V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  460 mOhm @ 1A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TUMT3  Package / Case  3-SMD, Flat Leads	Drive Voltage (Max Rds On, Min Rds On)	4V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TUMT3  Package / Case  160pF @ 10V  ±20V	Vgs(th) (Max) @ Id	2.5V @ 1mA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)800mW (Ta)Rds On (Max) @ Id, Vgs460 mOhm @ 1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTUMT3Package / Case3-SMD, Flat Leads	Gate Charge (Qg) (Max) @ Vgs	2.3nC @ 5V
FET Feature - Power Dissipation (Max) 800mW (Ta) Rds On (Max) @ Id, Vgs 460 mOhm @ 1A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package TUMT3 Package / Case 3-SMD, Flat Leads	Input Capacitance (Ciss) (Max) @ Vds	160pF @ 10V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  460 mOhm @ 1A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TUMT3  Package / Case  3-SMD, Flat Leads	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs460 mOhm @ 1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTUMT3Package / Case3-SMD, Flat Leads	FET Feature	-
Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TUMT3  Package / Case 3-SMD, Flat Leads	Power Dissipation (Max)	800mW (Ta)
Mounting Type Surface Mount  Supplier Device Package TUMT3  Package / Case 3-SMD, Flat Leads	Rds On (Max) @ Id, Vgs	460 mOhm @ 1A, 10V
Supplier Device Package TUMT3 Package / Case 3-SMD, Flat Leads	Operating Temperature	150°C (TJ)
Package / Case 3-SMD, Flat Leads	Mounting Type	Surface Mount
	Supplier Device Package	TUMT3
Report errors?	Package / Case	3-SMD, Flat Leads
		Report errors?

### **RSF010P05TL 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.

# **RSF010P05TL Payment Methods**





















### **RSF010P05TL Shipping Methods**













If you have any question about RSF010P05TL, please do not hesitate to contact us!

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