



## **RSD050N06TL Information**



For Reference Only

Part Number RSD050N06TL

Manufacturer Rohm Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 60V 5A SOT428

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



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.









## **RSD050N06TL Specifications**

Manufacturer Part Number         RSD050N06TL           Manufacturer         Rohm Semiconductor           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)         60V           Current - Continuous Drain (Id) @ 25°C         5A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 10V           Vgs(th) (Max) @ Id         3V @ ImA           Gate Charge (Qg) (Max) @ Vgs         8nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         290F @ 10V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         15W (Tc)           Rds On (Max) @ Id, Vgs         109 mOhm @ 5A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         CPT3           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63           Report errors?         Report errors?		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C5A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 10VVgs(th) (Max) @ Id3V @ ImAGate Charge (Qg) (Max) @ Vgs8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds290pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)15W (Tc)Rds On (Max) @ Id, Vgs109 mOhm @ 5A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageCPT3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	RSD050N06TL
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         60V           Current - Continuous Drain (Id) @ 25°C         5A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 10V           Vgs(th) (Max) @ Id         3V @ ImA           Gate Charge (Qg) (Max) @ Vgs         8nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         290pF @ 10V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         15W (Tc)           Rds On (Max) @ Id, Vgs         109 mOhm @ 5A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         CPT3           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Rohm Semiconductor
Package TO-252-3, DPak (2 Leads + Tab), SC-63  Series - FET Type N-Channel Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 60V  Current - Continuous Drain (Id) @ 25°C 5A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 4V, 10V  Vgs(th) (Max) @ Id 3V @ ImA  Gate Charge (Qg) (Max) @ Vgs 8nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 290pF @ 10V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 15W (Tc)  Rds On (Max) @ Id, Vgs 109 mOhm @ 5A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package CPT3  Package / Case To-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series - N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C 5A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 4V, 10V  Vgs(th) (Max) @ Id 3V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 8nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 290pF @ 10V  Vgs (Max) ±20V  FET Feature  Power Dissipation (Max) 15W (Tc)  Rds On (Max) @ Id, Vgs 109 mOhm @ 5A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package CPT3  Package / Case 170 NOSFET (Metal Oxide)  MOSFET (Metal Oxide)  60V  60V  EXAMOSET (Metal Oxide)  60V  5A (Ta)  5V (To)  5A (Ta)  5A (Ta)  5A (To)  60V  5A (Ta)  5A (To)  5A (Ta)  5A (To)  5A (T		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  60V  Current - Continuous Drain (Id) @ 25°C  5A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  3V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  8nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  290pF @ 10V  Vgs (Max)  ET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  109 mOhm @ 5A, 10V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  CPT3  Package / Case  N-Channel  Sty (Ta)  NOSFET (Metal Oxide)  60V  Sty (Ta)  Sup (ImA)  15V (Tc)  Surface Mount  CPT3  Package / Case	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 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) Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 109 mOhm @ 5A, 10V Operating Temperature Mounting Type Surface Mount Supplier Device Package Package / Case MOSFET (Metal Oxide) 60V  MOSFET (Metal Oxide) 60V  5A (Ta)	Series	-
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  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)  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  60V  5A (Ta)  5A (Ta)	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  109 mOhm @ 5A, 10V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  5A (Ta)  5V (ITV)  5V (ITV)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  3V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  I5W (Tc)  Rds On (Max) @ Id, Vgs  109 mOhm @ 5A, 10V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	60V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Input Capacitance (Ciss) (Max) @ Vds  15W (Tc)  Rds On (Max) @ Id, Vgs  109 mOhm @ 5A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  CPT3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	5A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  290pF @ 10V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  109 mOhm @ 5A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  CPT3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	4V, 10V
Input Capacitance (Ciss) (Max) @ Vds  290pF @ 10V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  15W (Tc)  Rds On (Max) @ Id, Vgs  109 mOhm @ 5A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  CPT3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	3V @ 1mA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)15W (Tc)Rds On (Max) @ Id, Vgs109 mOhm @ 5A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageCPT3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	8nC @ 10V
FET Feature -  Power Dissipation (Max) 15W (Tc)  Rds On (Max) @ Id, Vgs 109 mOhm @ 5A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package CPT3  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	290pF @ 10V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  109 mOhm @ 5A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  CPT3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs109 mOhm @ 5A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageCPT3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package CPT3  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	15W (Tc)
Mounting Type Surface Mount Supplier Device Package CPT3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	109 mOhm @ 5A, 10V
Supplier Device Package CPT3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	150°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	CPT3
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### **RSD050N06TL 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.

## **RSD050N06TL Payment Methods**





















## **RSD050N06TL Shipping Methods**













If you have any question about RSD050N06TL, please do not hesitate to contact us!

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