



### **DMTH4005SCT Information**



For Reference Only

Part Number DMTH4005SCT
Manufacturer Diodes Incorporated

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET NCH 40V 100A TO220AB

Package TO-220-3

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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# **DMTH4005SCT Specifications**

Manufacturer Part Number         DMTH400SSCT           Manufacturer         Diodes Incorporated           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-220-3           Series         Automotive, AEC-Q101           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         40V           Current - Continuous Drain (Id) @ 25°C         100A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         49.1nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         3062pF @ 20V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.8W (Ta), 125W (Tc)           Rds On (Max) @ Id, Vgs         4.7 mOhm @ 50A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220AB           Package / Case         TO-220-3		
Category         Discrete Semiconductor Products           Package         TO-220-3           Series         Automotive, AEC-Q101           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         40V           Current - Continuous Drain (Id) @ 25°C         100A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         49.1nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         3062pF @ 20V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.8W (Ta), 125W (Tc)           Rds On (Max) @ Id, Vgs         4.7 mOhm @ 50A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220AB           Package / Case         TO-220-3	Manufacturer Part Number	DMTH4005SCT
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SeriesAutomotive, AEC-Q101FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)40VCurrent - Continuous Drain (Id) @ 25°C100A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs49.1nC @ 10VInput Capacitance (Ciss) (Max) @ Vds3062pF @ 20VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.8W (Ta), 125W (Tc)Rds On (Max) @ Id, Vgs4.7 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3		Transistors - FETs, MOSFETs - Single
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Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 100A (Tc) 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 4.7 mOhm @ 50A, 10V Operating Temperature - Supplier Device Package Package / Case  MOSFET (Metal Oxide)  40V  40V  40V  40V  40V  40V  40V  40	Series	Automotive, AEC-Q101
Drain to Source Voltage (Vdss)40VCurrent - Continuous Drain (Id) @ 25°C100A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs49.1nC @ 10VInput Capacitance (Ciss) (Max) @ Vds3062pF @ 20VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.8W (Ta), 125W (Tc)Rds On (Max) @ Id, Vgs4.7 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	FET Type	N-Channel
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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  4.7 mOhm @ 50A, 10V  Operating Temperature  Supplier Device Package  Package / Case  TO-220AB  TO-220-3	Drain to Source Voltage (Vdss)	40V
Vgs(th) (Max) @ Id	Current - Continuous Drain (Id) @ 25°C	100A (Tc)
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Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Through Hole  Supplier Device Package  Package / Case  3062pF @ 20V  20V  20V  210V  210V	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)2.8W (Ta), 125W (Tc)Rds On (Max) @ Id, Vgs4.7 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	Gate Charge (Qg) (Max) @ Vgs	49.1nC @ 10V
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Supplier Device Package TO-220AB Package / Case TO-220-3	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-220-3	Mounting Type	Through Hole
	Supplier Device Package	TO-220AB
Report errors?	Package / Case	TO-220-3
		Report errors?

### **DMTH4005SCT 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.

## **DMTH4005SCT Payment Methods**



















### **DMTH4005SCT Shipping Methods**













If you have any question about DMTH4005SCT, please do not hesitate to contact us!

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