



# TK4P50D(T6RSS-Q) Information



For Reference Only

Part Number TK4P50D(T6RSS-Q)

ManufacturerToshiba Semiconductor and StorageCategoryDiscrete Semiconductor Products<br/>Transistors - FETs, MOSFETs - SingleDescriptionMOSFET N-CH 500V 4A DPAK-3

Package TO-252-3, DPak (2 Leads + Tab), SC-63

For the pricing/inventory/lead time, please contact

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



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## TK4P50D(T6RSS-Q) Specifications

Manufacturer Part NumberTK4P50D(T6RSS-Q)ManufacturerToshiba Semiconductor and StorageCategoryDiscrete Semiconductor ProductsFackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-MOSVIIFET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C4A (Ta)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.4V @ 1mAGate Charge (Qg) (Max) @ Vgs9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds380pF @ 25VYgs (Max)±30VFET Feature-Power Dissipation (Max)80W (Tc)Rds On (Max) @ Id, Vgs2 Ohm @ 2A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63Report errors?		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  Package TO-252-3, DPak (2 Leads + Tab), SC-63  Series - MOSVII  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 500V  Current - Continuous Drain (Id) @ 25°C 4A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4.4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 9nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 380pF @ 25V  Vgs (Max)  FET Feature -  Power Dissipation (Max) 80W (Tc)  Rds On (Max) @ Id, Vgs 2 Ohm @ 2A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	TK4P50D(T6RSS-Q)
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -MOSVII           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         4A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4.4V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         380pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         80W (Tc)           Rds On (Max) @ Id, Vgs         2 Ohm @ 2A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Toshiba Semiconductor and Storage
Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series -MOSVII FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 500V Current - Continuous Drain (Id) @ 25°C 4A (Ta) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.4V @ ImA Gate Charge (Qg) (Max) @ Vgs 9nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 380pF @ 25V Vgs (Max) ±30V FET Feature -Power Dissipation (Max) 80W (Tc) Rds On (Max) @ Id, Vgs 2 Ohm @ 2A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series -MOSVII  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 500V  Current - Continuous Drain (Id) @ 25°C 4A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4.4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 9nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 380pF @ 25V  Vgs (Max) ±30V  FET Feature -Power Dissipation (Max) 80W (Tc)  Rds On (Max) @ Id, Vgs 2 Ohm @ 2A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  500V  Current - Continuous Drain (Id) @ 25°C  4A (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)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  N-Continuous Drain (Id) @ 25°C  4A (Ta)  10V  4.4 Y @ ImA  4.4 Y @ ImA  4.4 Y @ ImA  5.4 Y @ 10V  5.4 Y @ 10V  5.4 Y @ 10V  5.5 Y @ 25 Y  5.5 Y	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 4A (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) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs Qperating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case  MOSFET (Metal Oxide) 500V 4A (Ta) 4.4 (Ta	Series	-MOSVII
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  4A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  10V  Vgs(th) (Max) @ Id  4.4V @ 1mA  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  500V  4A (Ta)  4A (	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C 4A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4.4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 9nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 380pF @ 25V  Vgs (Max) ±30V  FET Feature -  Power Dissipation (Max) 80W (Tc)  Rds On (Max) @ Id, Vgs 2 Ohm @ 2A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  4.4V @ 1mA  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  TO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	500V
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  Supplier Device Package  Package / Case  4.4V @ 1mA  4.4V @ 1m	Current - Continuous Drain (Id) @ 25°C	4A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  9nC @ 10V  380pF @ 25V  20h  80W (Tc)  80W (Tc)  Surface Mount  150°C (TJ)  Surface Mount  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2 Ohm @ 2A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	4.4V @ 1mA
Vgs (Max) ±30V  FET Feature -  Power Dissipation (Max) 80W (Tc)  Rds On (Max) @ Id, Vgs 2 Ohm @ 2A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	9nC @ 10V
FET Feature - Rower Dissipation (Max) 80W (Tc) Rds On (Max) @ Id, Vgs 2 Ohm @ 2A, 10V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	380pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2 Ohm @ 2A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs2 Ohm @ 2A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	80W (Tc)
Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	2 Ohm @ 2A, 10V
Supplier Device Package  D-Pak  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	D-Pak
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

## TK4P50D(T6RSS-Q) 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.

## TK4P50D(T6RSS-Q) Payment Methods



















## TK4P50D(T6RSS-Q) Shipping Methods













If you have any question about TK4P50D(T6RSS-Q), please do not hesitate to contact us!

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