



# CSD17501Q5A Information



For Reference Only

Part Number CSD17501Q5A

Manufacturer Texas Instruments

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 30V 100A 8SON

Package 8-PowerTDFN

For the pricing/inventory/lead time, please contact

us

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# CSD17501Q5A Specifications

Manufacturer Part NumberCSD17501Q5AManufacturerTexas InstrumentsCategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackage8-PowerTDFNSeriesNexFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C100A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id1.8V @ 250μAGate Charge (Qg) (Max) @ Vgs17nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds2630pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)3.2W (Ta)Rds On (Max) @ Id, Vgs2.9 mOhm @ 25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-VSON (5x6)Package / Case8-PowerTDFN		
Category  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  8-PowerTDFN  Series  NexFET?  FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  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)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  S-PowerTDFN	Manufacturer Part Number	CSD17501Q5A
Transistors - FETs, MOSFETS - Single         Package       8-PowerTDFN         Series       NexFET?         FET Type       N-Channel         Technology       MOSFET (Metal Oxide)         Drain to Source Voltage (Vdss)       30V         Current - Continuous Drain (Id) @ 25°C       100A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       4.5V, 10V         Vgs(th) (Max) @ Id       1.8V @ 250μA         Gate Charge (Qg) (Max) @ Vgs       17nC @ 4.5V         Input Capacitance (Ciss) (Max) @ Vds       2630pF @ 15V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       3.2W (Ta)         Rds On (Max) @ Id, Vgs       2.9 mOhm @ 25A, 10V         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       8-VSON (5x6)         Package / Case       8-PowerTDFN	Manufacturer	Texas Instruments
Package         8-PowerTDFN           Series         NexFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         100A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         1.8V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         17nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         2630pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         3.2W (Ta)           Rds On (Max) @ Id, Vgs         2.9 mOhm @ 25A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-VSON (5x6)           Package / Case         8-PowerTDFN	Category	Discrete Semiconductor Products
Series         NexFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         100A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         1.8V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         17nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         2630pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         3.2W (Ta)           Rds On (Max) @ Id, Vgs         2.9 mOhm @ 25A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-VSON (5x6)           Package / Case         8-PowerTDFN		Transistors - FETs, MOSFETs - Single
FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         100A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         1.8V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         17nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         2630pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         3.2W (Ta)           Rds On (Max) @ Id, Vgs         2.9 mOhm @ 25A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-VSON (5x6)           Package / Case         8-PowerTDFN	Package	8-PowerTDFN
Technology  Drain to Source Voltage (Vdss)  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  Operating Temperature  Supplier Device Package  Package / Case  MOSFET (Metal Oxide)  30V  10N C (Metal Oxide)  30V  10N Capacitance (Ciss)  100A (Tc)  100	Series	NexFET?
Drain to Source Voltage (Vdss)  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  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  8-PowerTDFN	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  2.9 mOhm @ 25A, 10V  Operating Temperature  Supplier Device Package Package / Case  100A (Tc)  100A	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  1.8V @ 250μA  Gate Charge (Qg) (Max) @ Vgs  17nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.9 mOhm @ 25A, 10V  Operating Temperature  Surface Mount  Supplier Device Package  Package / Case  8-PowerTDFN	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  Supplier Device Package Package / Case  1.8V @ 250μA  1.7nC @ 4.5V  1.7nC @ 4.5V  2630pF @ 15V  2	Current - Continuous Drain (Id) @ 25°C	100A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ETH Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Supplier Device Package  Package / Case  17nC @ 4.5V  2630pF @ 15V  2630pF @	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds       2630pF @ 15V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       3.2W (Ta)         Rds On (Max) @ Id, Vgs       2.9 mOhm @ 25A, 10V         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       8-VSON (5x6)         Package / Case       8-PowerTDFN	Vgs(th) (Max) @ Id	1.8V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)3.2W (Ta)Rds On (Max) @ Id, Vgs2.9 mOhm @ 25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-VSON (5x6)Package / Case8-PowerTDFN	Gate Charge (Qg) (Max) @ Vgs	17nC @ 4.5V
FET Feature -  Power Dissipation (Max) 3.2W (Ta)  Rds On (Max) @ Id, Vgs 2.9 mOhm @ 25A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 8-VSON (5x6)  Package / Case 8-PowerTDFN	Input Capacitance (Ciss) (Max) @ Vds	2630pF @ 15V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.9 mOhm @ 25A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-VSON (5x6)  Package / Case  8-PowerTDFN	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs2.9 mOhm @ 25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-VSON (5x6)Package / Case8-PowerTDFN	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 8-VSON (5x6)  Package / Case 8-PowerTDFN	Power Dissipation (Max)	3.2W (Ta)
Mounting Type Surface Mount Supplier Device Package 8-VSON (5x6) Package / Case 8-PowerTDFN	Rds On (Max) @ Id, Vgs	2.9 mOhm @ 25A, 10V
Supplier Device Package 8-VSON (5x6) Package / Case 8-PowerTDFN	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 8-PowerTDFN	Mounting Type	Surface Mount
	Supplier Device Package	8-VSON (5x6)
Report errors?	Package / Case	8-PowerTDFN
		Report errors?

### CSD17501Q5A 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.

## CSD17501Q5A Payment Methods



















### CSD17501Q5A Shipping Methods













If you have any question about CSD17501Q5A, please do not hesitate to contact us!

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