



## SUD50P08-25L-E3 Information



For Reference Only

Part Number SUD50P08-25L-E3
Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single MOSFET P-CH 80V 50A DPAK

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



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# **Certified Quality**

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**Description** 









## **SUD50P08-25L-E3 Specifications**

Manufacturer Part Number         SUD50P08-25L-E3           Manufacturer         Vishay Siliconix           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         TrenchFET?           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         80V           Current - Continuous Drain (Id) @ 25°C         50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         160nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         4700pF @ 40V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         8.3W (Ta), 136W (Tc)           Rds On (Max) @ Id, Vgs         25.2 mOhm @ 12.5A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         TrenchFET?           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         80V           Current - Continuous Drain (Id) @ 25°C         50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         160nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         4700pF @ 40V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         8.3W (Ta), 136W (Tc)           Rds On (Max) @ Id, Vgs         25.2 mOhm @ 12.5A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	SUD50P08-25L-E3
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         TrenchFET?           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         80V           Current - Continuous Drain (Id) @ 25°C         50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         160nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         4700pF @ 40V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         8.3W (Ta), 136W (Tc)           Rds On (Max) @ Id, Vgs         25.2 mOhm @ 12.5A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Vishay Siliconix
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         TrenchFET?           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         80V           Current - Continuous Drain (Id) @ 25°C         50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         160nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         4700pF @ 40V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         8.3W (Ta), 136W (Tc)           Rds On (Max) @ Id, Vgs         25.2 mOhm @ 12.5A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series         TrenchFET?           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         80V           Current - Continuous Drain (Id) @ 25°C         50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         160nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         4700pF @ 40V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         8.3W (Ta), 136W (Tc)           Rds On (Max) @ Id, Vgs         25.2 mOhm @ 12.5A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         80V           Current - Continuous Drain (Id) @ 25°C         50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         160nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         4700pF @ 40V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         8.3W (Ta), 136W (Tc)           Rds On (Max) @ Id, Vgs         25.2 mOhm @ 12.5A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)80VCurrent - Continuous Drain (Id) @ 25°C50A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs160nC @ 10VInput Capacitance (Ciss) (Max) @ Vds4700pF @ 40VVgs (Max)±20VFET Feature-Power Dissipation (Max)8.3W (Ta), 136W (Tc)Rds On (Max) @ Id, Vgs25.2 mOhm @ 12.5A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	TrenchFET?
Drain to Source Voltage (Vdss)80VCurrent - Continuous Drain (Id) @ 25°C50A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs160nC @ 10VInput Capacitance (Ciss) (Max) @ Vds4700pF @ 40VVgs (Max)±20VFET Feature-Power Dissipation (Max)8.3W (Ta), 136W (Tc)Rds On (Max) @ Id, Vgs25.2 mOhm @ 12.5A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	P-Channel
Current - Continuous Drain (Id) @ 25°C       50A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       4.5V, 10V         Vgs(th) (Max) @ Id       3V @ 250µA         Gate Charge (Qg) (Max) @ Vgs       160nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       4700pF @ 40V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       8.3W (Ta), 136W (Tc)         Rds On (Max) @ Id, Vgs       25.2 mOhm @ 12.5A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       TO-252, (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)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs160nC @ 10VInput Capacitance (Ciss) (Max) @ Vds4700pF @ 40VVgs (Max)±20VFET Feature-Power Dissipation (Max)8.3W (Ta), 136W (Tc)Rds On (Max) @ Id, Vgs25.2 mOhm @ 12.5A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	80V
Vgs(th) (Max) @ Id       3V @ 250μA         Gate Charge (Qg) (Max) @ Vgs       160nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       4700pF @ 40V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       8.3W (Ta), 136W (Tc)         Rds On (Max) @ Id, Vgs       25.2 mOhm @ 12.5A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       TO-252, (D-Pak)         Package / Case       TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	50A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  4700pF @ 40V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  25.2 mOhm @ 12.5A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  4700pF @ 40V  Vgs (Max)  E20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  25.2 mOhm @ 12.5A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	3V @ 250μA
Vgs (Max) $\pm 20\text{V}$ FET Feature-Power Dissipation (Max) $8.3\text{W}$ (Ta), $136\text{W}$ (Tc)Rds On (Max) @ Id, Vgs $25.2 \text{ mOhm}$ @ $12.5\text{A}$ , $10\text{V}$ Operating Temperature $-55^{\circ}\text{C} \sim 175^{\circ}\text{C}$ (TJ)Mounting TypeSurface MountSupplier Device Package $TO-252$ , $(D-Pak)$ Package / Case $TO-252-3$ , $DPak$ ( $2 \text{ Leads} + Tab$ ), $SC-63$	Gate Charge (Qg) (Max) @ Vgs	160nC @ 10V
FET Feature -  Power Dissipation (Max) 8.3W (Ta), 136W (Tc)  Rds On (Max) @ Id, Vgs 25.2 mOhm @ 12.5A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-252, (D-Pak)  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	4700pF @ 40V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  25.2 mOhm @ 12.5A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs25.2 mOhm @ 12.5A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	8.3W (Ta), 136W (Tc)
Mounting Type Surface Mount  TO-252, (D-Pak)  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	25.2 mOhm @ 12.5A, 10V
Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	TO-252, (D-Pak)
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### SUD50P08-25L-E3 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.

### SUD50P08-25L-E3 Payment Methods



















### SUD50P08-25L-E3 Shipping Methods













If you have any question about SUD50P08-25L-E3, please do not hesitate to contact us!

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