



SUD40N02-08-E3 Information



For Reference Only

Part Number SUD40N02-08-E3
Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 20V 40A TO252

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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SUD40N02-08-E3 Specifications

Manufacturer Part Number SUD40N02-08-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 N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 40A (Tc) Drive Voltage (Max Rds On, Min Rds On) 2.5V, 4.5V Vgs(th) (Max) @ Id 600mV @ 250μA (Min) Gate Charge (Qg) (Max) @ Vgs 35nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 2660pF @ 20V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 8.3W (Ta), 71W (Tc) Rds On (Max) @ Id, Vgs 8.5 mOhm @ 20A, 4.5V 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		
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Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 40A (Tc) Drive Voltage (Max Rds On, Min Rds On) 2.5V, 4.5V Vgs(th) (Max) @ Id 600mV @ 250µA (Min) Gate Charge (Qg) (Max) @ Vgs 1nput Capacitance (Ciss) (Max) @ Vds 2660pF @ 20V Vgs (Max) ##ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 0perating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case MAX (Ta), 71P (Cleads + Tab), SC-63	Series	TrenchFET?
Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C40A (Tc)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id600mV @ 250μA (Min)Gate Charge (Qg) (Max) @ Vgs35nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds2660pF @ 20VVgs (Max)±12VFET Feature-Power Dissipation (Max)8.3W (Ta), 71W (Tc)Rds On (Max) @ Id, Vgs8.5 mOhm @ 20A, 4.5VOperating 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	N-Channel
Current - Continuous Drain (Id) @ 25°C Drive Voltage (Max Rds On, Min Rds On) 2.5V, 4.5V Vgs(th) (Max) @ Id 600mV @ 250μA (Min) Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ±12V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 8.3W (Ta), 71W (Tc) Rds On (Max) @ Id, Vgs 8.5 mOhm @ 20A, 4.5V 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)2.5 V, 4.5 VVgs(th) (Max) @ Id600mV @ 250μA (Min)Gate Charge (Qg) (Max) @ Vgs35nC @ 4.5 VInput Capacitance (Ciss) (Max) @ Vds2660pF @ 20 VVgs (Max)±12 VFET Feature-Power Dissipation (Max)8.3W (Ta), 71W (Tc)Rds On (Max) @ Id, Vgs8.5 mOhm @ 20A, 4.5 VOperating 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)	20V
Vgs(th) (Max) @ Id 600mV @ 250μA (Min) Gate Charge (Qg) (Max) @ Vgs 35nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 2660pF @ 20V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 8.3W (Ta), 71W (Tc) Rds On (Max) @ Id, Vgs 8.5 mOhm @ 20A, 4.5V 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	40A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) +12V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature For Temperature Surface Mount Supplier Device Package TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	2.5V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds 2660pF @ 20V Vgs (Max) ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 8.5 mOhm @ 20A, 4.5V 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	600mV @ 250µA (Min)
Vgs (Max) $\pm 12V$ FET Feature-Power Dissipation (Max) $8.3W$ (Ta), $71W$ (Tc)Rds On (Max) @ Id, Vgs 8.5 mOhm @ $20A$, $4.5V$ Operating Temperature -55° C ~ 175° C (TJ)Mounting TypeSurface MountSupplier Device PackageTO- 252 , (D-Pak)Package / CaseTO- 252 -3, DPak (2 Leads + Tab), SC- 63	Gate Charge (Qg) (Max) @ Vgs	35nC @ 4.5V
FET Feature - Power Dissipation (Max) 8.3W (Ta), 71W (Tc) Rds On (Max) @ Id, Vgs 8.5 mOhm @ 20A, 4.5V 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	2660pF @ 20V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 8.5 mOhm @ 20A, 4.5V 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)	±12V
Rds On (Max) @ Id, Vgs8.5 mOhm @ 20A, 4.5VOperating 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), 71W (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	8.5 mOhm @ 20A, 4.5V
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?

SUD40N02-08-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.

SUD40N02-08-E3 Payment Methods



















SUD40N02-08-E3 Shipping Methods













If you have any question about SUD40N02-08-E3, please do not hesitate to contact us!

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