



SI7738DP-T1-GE3 Information



For Reference Only

Part Number SI7738DP-T1-GE3
Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 150V 30A PPAK SO-8

Package PowerPAK? SO-8

For the pricing/inventory/lead time, please contact

us

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



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SI7738DP-T1-GE3 Specifications

Manufacturer Part Number SI7738DP-T1-GE3 Manufacturer Vishay Siliconix Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package PowerPAK? SO-8 Series TrenchFET? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 150V Current - Continuous Drain (Id) @ 25°C 30A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 53nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2100pF @ 75V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 5.4W (Ta), 96W (Tc) Rds On (Max) @ Id, Vgs 38 mOhm @ 7.7A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8		
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SeriesTrenchFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C30A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs53nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2100pF @ 75VVgs (Max)±20VFET Feature-Power Dissipation (Max)5.4W (Ta), 96W (Tc)Rds On (Max) @ Id, Vgs38 mOhm @ 7.7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8		Transistors - FETs, MOSFETs - Single
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TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C30A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs53nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2100pF @ 75VVgs (Max)±20VFET Feature-Power Dissipation (Max)5.4W (Ta), 96W (Tc)Rds On (Max) @ Id, Vgs38 mOhm @ 7.7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Series	TrenchFET?
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Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs53nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2100pF @ 75VVgs (Max)±20VFET Feature-Power Dissipation (Max)5.4W (Ta), 96W (Tc)Rds On (Max) @ Id, Vgs38 mOhm @ 7.7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Drain to Source Voltage (Vdss)	150V
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 PowerPAK? SO-8 Package / Case Annual Ave 250μA 4V @ 250μA 53nC @ 10V 2100pF @ 75V 240V 54V (Ta), 96W (Tc) 38 mOhm @ 7.7A, 10V 54W (Ta), 96W (Tc) Surface Mount PowerPAK? SO-8	Current - Continuous Drain (Id) @ 25°C	30A (Tc)
Gate Charge (Qg) (Max) @ Vgs 53nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2100pF @ 75V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 5.4W (Ta), 96W (Tc) Rds On (Max) @ Id, Vgs 38 mOhm @ 7.7A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds 2100pF @ 75V Vgs (Max) ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 7.7A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)5.4W (Ta), 96W (Tc)Rds On (Max) @ Id, Vgs38 mOhm @ 7.7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Gate Charge (Qg) (Max) @ Vgs	53nC @ 10V
FET Feature - Power Dissipation (Max) 5.4W (Ta), 96W (Tc) Rds On (Max) @ Id, Vgs 38 mOhm @ 7.7A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Input Capacitance (Ciss) (Max) @ Vds	2100pF @ 75V
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Rds On (Max) @ Id, Vgs38 mOhm @ 7.7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Power Dissipation (Max)	5.4W (Ta), 96W (Tc)
Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Rds On (Max) @ Id, Vgs	38 mOhm @ 7.7A, 10V
Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case PowerPAK? SO-8	Mounting Type	Surface Mount
	Supplier Device Package	PowerPAK? SO-8
Report errors?	Package / Case	PowerPAK? SO-8
		Report errors?

SI7738DP-T1-GE3 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.

SI7738DP-T1-GE3 Payment Methods



















SI7738DP-T1-GE3 Shipping Methods













If you have any question about SI7738DP-T1-GE3, please do not hesitate to contact us!

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