

FDD86580_F085 Information



For Reference Only

Part Number FDD86580_F085

ManufacturerFairchild/ON SemiconductorCategoryDiscrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 60V 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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FDD86580_F085 Specifications

Manufacturer Part Number FDD86580_F085 Manufacturer Fairchild/ON Semiconductor Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series Automotive, AEC-Q101, PowerTrench? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 60V Current - Continuous Drain (Id) @ 25°C 50A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.2V @ 250µA Gate Charge (Qg) (Max) @ Vgs 30nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1430pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 75W (Tj) Rds On (Max) @ Id, Vgs 19 mOhm @ 50A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63		
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PackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesAutomotive, AEC-Q101, PowerTrench?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C50A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.2V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1430pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tj)Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
SeriesAutomotive, AEC-Q101, PowerTrench?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C50A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.2V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1430pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tj)Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C50A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.2V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1430pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tj)Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-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)60VCurrent - Continuous Drain (Id) @ 25°C50A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.2V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1430pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tj)Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	Automotive, AEC-Q101, PowerTrench?
Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C50A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.2V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1430pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tj)Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / 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) 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 19 mOhm @ 50A, 10V Operating Temperature Supplier Device Package Package / Case 50A (Tc)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.2V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1430pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tj)Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	60V
Vgs(th) (Max) @ Id	Current - Continuous Drain (Id) @ 25°C	50A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 1430pF @ 30V Vgs (Max) ±20V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 19 mOhm @ 50A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case 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) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 19 mOhm @ 50A, 10V Operating Temperature -55°C ~ 175°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	4.2V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tj)Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	30nC @ 10V
FET Feature - Power Dissipation (Max) 75W (Tj) Rds On (Max) @ Id, Vgs 19 mOhm @ 50A, 10V Operating Temperature -55°C ~ 175°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	1430pF @ 30V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 19 mOhm @ 50A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package D-Pak Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs19 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature -55°C ~ 175°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)	75W (Tj)
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	19 mOhm @ 50A, 10V
Supplier Device Package 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	D-Pak
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

FDD86580_F085 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.

FDD86580_F085 Payment Methods



















FDD86580_F085 Shipping Methods













If you have any question about FDD86580_F085, please do not hesitate to contact us!

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