

IPD053N06N3GBTMA1

IPD053N06N3GBTMA1 Information



For Reference Only

Part Number IPD053N06N3GBTMA1 **Manufacturer** Infineon Technologies

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 60V 90A TO252-3 **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



Request a Quote

Certified Quality

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









IPD053N06N3GBTMA1 Specifications

Manufacturer Part Number IPD053N06N3GBTMA1 Manufacturer Infineon Technologies Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 60V Current - Continuous Drain (Id) @ 25°C 90A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 58μA Gate Charge (Qg) (Max) @ Vgs 82nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6600pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-T0252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63 Report errors?		
Category Discrete Semiconductor Products Fackage Transistors - FETs, MOSFETs - Single Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 60V Current - Continuous Drain (Id) @ 25°C 90A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 58µA Gate Charge (Qg) (Max) @ Vgs 82nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6600pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	IPD053N06N3GBTMA1
Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 60V Current - Continuous Drain (Id) @ 25°C 90A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 58μA Gate Charge (Qg) (Max) @ Vgs 82nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6600pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Infineon Technologies
Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 60V Current - Continuous Drain (Id) @ 25°C 90A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 58μA Gate Charge (Qg) (Max) @ Vgs 82nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6600pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-T0252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
SeriesOptiMOS?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C90A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 58μAGate Charge (Qg) (Max) @ Vgs82nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6600pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)115W (Tc)Rds On (Max) @ Id, Vgs5.3 mOhm @ 90A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TO252-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) for to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Prive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Rogardiance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Son (Max) @ Id, Vgs Poerating Temperature Supplier Device Package PG-TO252-3 Package / Case N-Channel MOSFET (Metal Oxide) MOSFET (Metal Oxide) MOSFET (Metal Oxide) FOV Son (To Son (To Son (To Son (To Son (Max) @ Id, Vgs Son (Max) @ Id, Vgs	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C90A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 58μAGate Charge (Qg) (Max) @ Vgs82nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6600pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)115W (Tc)Rds On (Max) @ Id, Vgs5.3 mOhm @ 90A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TO252-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	OptiMOS?
Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C90A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 58μAGate Charge (Qg) (Max) @ Vgs82nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6600pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)115W (Tc)Rds On (Max) @ Id, Vgs5.3 mOhm @ 90A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TO252-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C 90A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 58µA Gate Charge (Qg) (Max) @ Vgs 82nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6600pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 58μAGate Charge (Qg) (Max) @ Vgs82nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6600pF @ 30VVgs (Max)±20VFET Feature-Power Dissipation (Max)115W (Tc)Rds On (Max) @ Id, Vgs5.3 mOhm @ 90A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TO252-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	60V
Vgs(th) (Max) @ Id 4V @ 58μA Gate Charge (Qg) (Max) @ Vgs 82nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6600pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	90A (Tc)
Gate Charge (Qg) (Max) @ Vgs 82nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6600pF @ 30V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TO252-3 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) ET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-T0252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	4V @ 58μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)115W (Tc)Rds On (Max) @ Id, Vgs5.3 mOhm @ 90A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TO252-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	82nC @ 10V
FET Feature - Power Dissipation (Max) 115W (Tc) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	6600pF @ 30V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 5.3 mOhm @ 90A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs5.3 mOhm @ 90A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TO252-3Package / 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 PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	115W (Tc)
Mounting Type Surface Mount Supplier Device Package PG-TO252-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	5.3 mOhm @ 90A, 10V
Supplier Device Package PG-TO252-3 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	PG-TO252-3
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

IPD053N06N3GBTMA1 Guarantees



Ouality 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.

IPD053N06N3GBTMA1 Payment Methods





















IPD053N06N3GBTMA1 Shipping Methods













If you have any question about IPD053N06N3GBTMA1, please do not hesitate to contact us!

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