



BSC205N10LS G Information



For Reference Only

Part Number BSC205N10LS G **Manufacturer** Infineon Technologies

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 100V 45A TDSON-8

Package 8-PowerTDFN

For the pricing/inventory/lead time, please contact

us

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



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BSC205N10LS G Specifications

Manufacturer Part Number BSC205N10LS G Manufacturer Infineon Technologies Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package 8-PowerTDFN Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 7.4A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.4V @ 43µA Gate Charge (Qg) (Max) @ Vgs 4lnC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2900pF @ 50V Vgs (Max) 2900pF @ 50V Vgs (Max) 20V FET Feature - Power Dissipation (Max) 76W (Tc) Rds On (Max) @ Id, Vgs 20.5 mOhm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single 8-PowerTDFN Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 7.4A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 41nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2900pF @ 50V Vgs (Max) #20V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 20.5 mohm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case	Manufacturer Part Number	BSC205N10LS G
Package 8-PowerTDFN Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 7.4A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.4V @ 43μA Gate Charge (Qg) (Max) @ Vgs 4lnC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2900pF @ 50V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 76W (Tc) Rds On (Max) @ Id, Vgs 20.5 mOhm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN	Manufacturer	Infineon Technologies
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Series OptiMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 7.4A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.4V @ 43μA Gate Charge (Qg) (Max) @ Vgs 4lnC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2900pF @ 50V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 76W (Tc) Rds On (Max) @ Id, Vgs 20.5 mOhm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 7.4A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.4V @ 43µA Gate Charge (Qg) (Max) @ Vgs 41nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2900pF @ 50V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 76W (Tc) Rds On (Max) @ Id, Vgs 20.5 mOhm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN	Package	8-PowerTDFN
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 7.4A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs 41nC @ 10V 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 Package / Case MOSFET (Metal Oxide) 100V 100V 7.4A (Ta), 45A (Tc) 7.4A (Ta), 45A (Tc) 7.4B (Ta) 7.4B (Ta) 7.4C (Ta)	Series	OptiMOS?
Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C7.4A (Ta), 45A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.4V @ 43μAGate Charge (Qg) (Max) @ Vgs41nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2900pF @ 50VVgs (Max)±20VFET Feature-Power Dissipation (Max)76W (Tc)Rds On (Max) @ Id, Vgs20.5 mOhm @ 45A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TDSON-8Package / Case8-PowerTDFN	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 Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 7.4A (Ta), 45A (Tc) 7.4A (Ta),	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.4V @ 43μAGate Charge (Qg) (Max) @ Vgs41nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2900pF @ 50VVgs (Max)±20VFET Feature-Power Dissipation (Max)76W (Tc)Rds On (Max) @ Id, Vgs20.5 mOhm @ 45A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TDSON-8Package / Case8-PowerTDFN	Drain to Source Voltage (Vdss)	100V
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 Package / Case 8-PowerTDFN	Current - Continuous Drain (Id) @ 25°C	7.4A (Ta), 45A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 2900pF @ 50V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 20.5 mOhm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 8-PowerTDFN	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 8-PowerTDFN	Vgs(th) (Max) @ Id	2.4V @ 43μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)76W (Tc)Rds On (Max) @ Id, Vgs20.5 mOhm @ 45A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TDSON-8Package / Case8-PowerTDFN	Gate Charge (Qg) (Max) @ Vgs	41nC @ 10V
FET Feature - Power Dissipation (Max) 76W (Tc) Rds On (Max) @ Id, Vgs 20.5 mOhm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN	Input Capacitance (Ciss) (Max) @ Vds	2900pF @ 50V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 20.5 mOhm @ 45A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs20.5 mOhm @ 45A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePG-TDSON-8Package / Case8-PowerTDFN	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN	Power Dissipation (Max)	76W (Tc)
Mounting Type Surface Mount Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN	Rds On (Max) @ Id, Vgs	20.5 mOhm @ 45A, 10V
Supplier Device Package PG-TDSON-8 Package / Case 8-PowerTDFN	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 8-PowerTDFN	Mounting Type	Surface Mount
	Supplier Device Package	PG-TDSON-8
Report errors?	Package / Case	8-PowerTDFN
		Report errors?

BSC205N10LS G 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.

BSC205N10LS G Payment Methods



















BSC205N10LS G Shipping Methods













If you have any question about BSC205N10LS G, please do not hesitate to contact us!

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