



# NTD4860NAT4G Information



For Reference Only

Part Number NTD4860NAT4G
Manufacturer ON Semiconductor

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description**MOSFET N-CH 25V 10.4A 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



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.









## NTD4860NAT4G Specifications

Manufacturer Part Number         NTD4860NAT4G           Manufacturer         ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         25V           Current - Continuous Drain (Id) @ 25°C         10.4A (Ta), 65A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         2.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         16.5nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         1308pF @ 12V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         1.28W (Ta), 50W (Tc)           Rds On (Max) @ Id, Vgs         7.5 mOhm @ 30A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63           Report errors?		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         25V           Current - Continuous Drain (Id) @ 25°C         10.4A (Ta), 65A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         16.5nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         1308pF @ 12V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         1.28W (Ta), 50W (Tc)           Rds On (Max) @ Id, Vgs         7.5 mOhm @ 30A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	NTD4860NAT4G
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         25V           Current - Continuous Drain (Id) @ 25°C         10.4A (Ta), 65A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         16.5nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         1308pF @ 12V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         1.28W (Ta), 50W (Tc)           Rds On (Max) @ Id, Vgs         7.5 mOhm @ 30A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	ON Semiconductor
PackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)25VCurrent - Continuous Drain (Id) @ 25°C10.4A (Ta), 65A (Tc)Drive Voltage (Max Rds On, Min Rds On)-Vgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs16.5nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1308pF @ 12VVgs (Max)-FET Feature-Power Dissipation (Max)1.28W (Ta), 50W (Tc)Rds On (Max) @ Id, Vgs7.5 mOhm @ 30A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         25V           Current - Continuous Drain (Id) @ 25°C         10.4A (Ta), 65A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         16.5nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         1308pF @ 12V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         1.28W (Ta), 50W (Tc)           Rds On (Max) @ Id, Vgs         7.5 mOhm @ 30A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  16.5nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  1308pF @ 12V  Vgs (Max)  - FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7.5 mOhm @ 30A, 10V  Operating Temperature  Supplier Device Package  DPAK  Package / Case  N-Channel  1044 (Ta), 65A (Tc)  10.4A (Ta), 65A (Tc)	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)25VCurrent - Continuous Drain (Id) @ 25°C10.4A (Ta), 65A (Tc)Drive Voltage (Max Rds On, Min Rds On)-Vgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs16.5nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1308pF @ 12VVgs (Max)-FET Feature-Power Dissipation (Max)1.28W (Ta), 50W (Tc)Rds On (Max) @ Id, Vgs7.5 mOhm @ 30A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	-
Drain to Source Voltage (Vdss)25VCurrent - Continuous Drain (Id) @ 25°C10.4A (Ta), 65A (Tc)Drive Voltage (Max Rds On, Min Rds On)-Vgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs16.5nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1308pF @ 12VVgs (Max)-FET Feature-Power Dissipation (Max)1.28W (Ta), 50W (Tc)Rds On (Max) @ Id, Vgs7.5 mOhm @ 30A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C 10.4A (Ta), 65A (Tc)  Drive Voltage (Max Rds On, Min Rds On) -  Vgs(th) (Max) @ Id 2.5V @ 250μA  Gate Charge (Qg) (Max) @ Vgs 16.5nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds 1308pF @ 12V  Vgs (Max) -  FET Feature -  Power Dissipation (Max) 1.28W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 7.5 mOhm @ 30A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package DPAK  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)-Vgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs16.5nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1308pF @ 12VVgs (Max)-FET Feature-Power Dissipation (Max)1.28W (Ta), 50W (Tc)Rds On (Max) @ Id, Vgs7.5 mOhm @ 30A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	25V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1308pF @ 12V  Vgs (Max)  - FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7.5 mOhm @ 30A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	10.4A (Ta), 65A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1308pF @ 12V  Vgs (Max)  - FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7.5 mOhm @ 30A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  16.5nC @ 4.5V  1308pF @ 12V  120  Surface (Ciss) (Max) @ 12V  -50°C (TJ)  Surface Mount  DPAK  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	-
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  - FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7.5 mOhm @ 30A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	2.5V @ 250μA
Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7.5 mOhm @ 30A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	16.5nC @ 4.5V
FET Feature -  Power Dissipation (Max) 1.28W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 7.5 mOhm @ 30A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package DPAK  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	1308pF @ 12V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  7.5 mOhm @ 30A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	-
Rds On (Max) @ Id, Vgs7.5 mOhm @ 30A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / 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  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	1.28W (Ta), 50W (Tc)
Mounting Type Surface Mount  Supplier Device Package DPAK  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	7.5 mOhm @ 30A, 10V
Supplier Device Package  DPAK  Package / Case  DPAK  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	DPAK
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

### NTD4860NAT4G 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.

### NTD4860NAT4G Payment Methods



















### NTD4860NAT4G Shipping Methods













If you have any question about NTD4860NAT4G, please do not hesitate to contact us!

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