



### STD36NH02L Information



For Reference Only

Part Number STD36NH02L

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single MOSFET N-CH 24V 30A 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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**Description** 









# STD36NH02L Specifications

Manufacturer Part Number         STD36NH02L           Manufacturer         STMicroelectronics           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         STripFET? III           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         24V           Current - Continuous Drain (Id) @ 25°C         30A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         20nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         860pF @ 15V           Vgs (Max)         E20V           FET Feature         -           Power Dissipation (Max)         45W (Tc)           Rds On (Max) @ Id, Vgs         14.5 mOhm @ 15A, 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           Report errors?		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         STripFET? III           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         24V           Current - Continuous Drain (Id) @ 25°C         30A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         20nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         860pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         45W (Tc)           Rds On (Max) @ Id, Vgs         14.5 mOhm @ 15A, 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	Manufacturer Part Number	STD36NH02L
Package         To-252-3, DPak (2 Leads + Tab), SC-63           Series         STripFET? III           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         24V           Current - Continuous Drain (Id) @ 25°C         30A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         20nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         860pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         45W (Tc)           Rds On (Max) @ Id, Vgs         14.5 mOhm @ 15A, 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	Manufacturer	STMicroelectronics
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         STripFET? III           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         24V           Current - Continuous Drain (Id) @ 25°C         30A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         20nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         860pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         45W (Tc)           Rds On (Max) @ Id, Vgs         14.5 mOhm @ 15A, 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	Category	Discrete Semiconductor Products
Series         STripFET? III           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         24V           Current - Continuous Drain (Id) @ 25°C         30A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         20nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         860pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         45W (Tc)           Rds On (Max) @ Id, Vgs         14.5 mOhm @ 15A, 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		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)24VCurrent - Continuous Drain (Id) @ 25°C30A (Tc)Drive Voltage (Max Rds On, Min Rds On)5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs20nC @ 10VInput Capacitance (Ciss) (Max) @ Vds860pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)45W (Tc)Rds On (Max) @ Id, Vgs14.5 mOhm @ 15A, 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
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 30A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs 20nC @ 10V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max)  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 14.5 mOhm @ 15A, 10V Operating Temperature  Surface Mount Supplier Device Package Package / Case  MOSFET (Metal Oxide)  24V  MOSFET (Metal Oxide)  44V  45V  (Tc)  30A (Tc)  5V, 10V  2.5V @ 250μA  860pF @ 15V  ±20V  FET Feature	Series	STripFET? III
Drain to Source Voltage (Vdss)24VCurrent - Continuous Drain (Id) @ 25°C30A (Tc)Drive Voltage (Max Rds On, Min Rds On)5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs20nC @ 10VInput Capacitance (Ciss) (Max) @ Vds860pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)45W (Tc)Rds On (Max) @ Id, Vgs14.5 mOhm @ 15A, 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)  5V, 10V  Vgs(th) (Max) @ Id  Cate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  14.5 mOhm @ 15A, 10V  Operating Temperature  Surpface Mount  Supplier Device Package  Package / Case  30A (Tc)  5V, 10V  2.5V @ 250μA  860pF @ 15V  45V  FET Feature	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs20nC @ 10VInput Capacitance (Ciss) (Max) @ Vds860pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)45W (Tc)Rds On (Max) @ Id, Vgs14.5 mOhm @ 15A, 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)	24V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  +20V  FET Feature  - Power Dissipation (Max)  As Month (Max) @ Id, Vgs  Operating Temperature  Found Temperature  Surplier Device Package  Package / Case  2.5V @ 250μA  2.6V @ 250μA  2.6V @ 10V  860pF @ 15V  45V  FET Feature  -  -  -  -  -  -  -  -  -  -  -  -  -	Current - Continuous Drain (Id) @ 25°C	30A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  860pF @ 15V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  14.5 mOhm @ 15A, 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)	5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  14.5 mOhm @ 15A, 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	2.5V @ 250μA
Vgs (Max) $\pm 20$ VFET Feature-Power Dissipation (Max) $45$ W (Tc)Rds On (Max) @ Id, Vgs $14.5$ mOhm @ $15$ A, $10$ VOperating Temperature $-55^{\circ}$ C ~ $175^{\circ}$ C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO- $252$ -3, DPak ( $2$ Leads + Tab), SC- $63$	Gate Charge (Qg) (Max) @ Vgs	20nC @ 10V
FET Feature -  Power Dissipation (Max) 45W (Tc)  Rds On (Max) @ Id, Vgs 14.5 mOhm @ 15A, 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	860pF @ 15V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  14.5 mOhm @ 15A, 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, Vgs14.5 mOhm @ 15A, 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)	45W (Tc)
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	14.5 mOhm @ 15A, 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?

#### STD36NH02L 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.



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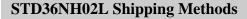
























If you have any question about STD36NH02L, please do not hesitate to contact us!

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