



### STU12N60M2 Information



For Reference Only

Part Number STU12N60M2 Manufacturer STMicroelectronics

Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single

MOSFET N-CH 600V 9A IPAK

**Description** Package TO-251-3 Short Leads, IPak, TO-251AA

For the pricing/inventory/lead time, please contact

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.









# STU12N60M2 Specifications

Manufacturer Part Number         STU12N60M2           Manufacturer         STMicroelectronics           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-251-3 Short Leads, IPak, TO-251AA           Series         MDmesh? M2           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         9A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         16nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         538pF @ 100V           Vgs (Max)         ±25V           FET Feature         -           Power Dissipation (Max)         85W (Tc)           Rds On (Max) @ Id, Vgs         450 mOhm @ 4.5A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         I-Pak           Package / Case         TO-251-3 Short Leads, IPak, TO-251AA		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-251-3 Short Leads, IPak, TO-251AASeriesMDmesh? M2FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C9A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250µAGate Charge (Qg) (Max) @ Vgs16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds538pF @ 100VVgs (Max)±25VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs450 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	Manufacturer Part Number	STU12N60M2
Package         TO-251-3 Short Leads, IPak, TO-251AA           Series         MDmesh? M2           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         9A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         16nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         538pF @ 100V           Vgs (Max)         ±25V           FET Feature         -           Power Dissipation (Max)         85W (Tc)           Rds On (Max) @ Id, Vgs         450 mOhm @ 4.5A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         1-Pak           Package / Case         TO-251-3 Short Leads, IPak, TO-251AA	Manufacturer	STMicroelectronics
PackageTO-251-3 Short Leads, IPak, TO-251AASeriesMDmesh? M2FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C9A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds538pF @ 100VVgs (Max)±25VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs450 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	Category	Discrete Semiconductor Products
SeriesMDmesh? M2FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C9A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds538pF @ 100VVgs (Max)±25VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs450 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain 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  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±25V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  450 mOhm @ 4.5A, 10V  Operating Temperature  Jenush Mounting Type  Through Hole  Supplier Device Package  TO-251-3 Short Leads, IPak, TO-251AA	Package	TO-251-3 Short Leads, IPak, TO-251AA
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C9A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds538pF @ 100VVgs (Max)±25VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs450 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	Series	MDmesh? M2
Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C9A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds538pF @ 100VVgs (Max)±25VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs450 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Prive 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  450 mOhm @ 4.5A, 10V  Operating Temperature  Supplier Device Package  Package / Case  Power Dissipation (Pax)  Through Hole  Input Capacitance (Ciss) (Pax)  Power Dissipation (Pax)  FET Feature  -  Power Dissipation (Pax)  FET Feature  -  Power Dissipation (Pax)  FET Feature  -  FET	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds538pF @ 100VVgs (Max)±25VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs450 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	Drain to Source Voltage (Vdss)	600V
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  Through Hole  Supplier Device Package  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Current - Continuous Drain (Id) @ 25°C	9A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  538pF @ 100V  Vgs (Max)  ±25V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  450 mOhm @ 4.5A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  I-Pak  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	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  450 mOhm @ 4.5A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  I-Pak  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max) ±25V  FET Feature -  Power Dissipation (Max) 85W (Tc)  Rds On (Max) @ Id, Vgs 450 mOhm @ 4.5A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Supplier Device Package I-Pak  Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Gate Charge (Qg) (Max) @ Vgs	16nC @ 10V
FET Feature -  Power Dissipation (Max) 85W (Tc)  Rds On (Max) @ Id, Vgs 450 mOhm @ 4.5A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Supplier Device Package I-Pak  Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Input Capacitance (Ciss) (Max) @ Vds	538pF @ 100V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  450 mOhm @ 4.5A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  I-Pak  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Vgs (Max)	±25V
Rds On (Max) @ Id, Vgs450 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  I-Pak  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Power Dissipation (Max)	85W (Tc)
Mounting Type Through Hole Supplier Device Package I-Pak Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Rds On (Max) @ Id, Vgs	450 mOhm @ 4.5A, 10V
Supplier Device Package  I-Pak Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Mounting Type	Through Hole
	Supplier Device Package	I-Pak
Report errors?	Package / Case	TO-251-3 Short Leads, IPak, TO-251AA
		Report errors?

#### STU12N60M2 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.

## STU12N60M2 Payment Methods



















### STU12N60M2 Shipping Methods













If you have any question about STU12N60M2, please do not hesitate to contact us!

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