

**SCTWA50N120 Information**


For Reference Only

**Part Number** [SCTWA50N120](#)  
**Manufacturer** STMicroelectronics  
**Category** Discrete Semiconductor Products  
[Transistors - FETs, MOSFETs - Single](#)  
**Description** MOSFET N-CH SiCFET 1.2KV HIP247  
**Package** TO-247-3  
 For the pricing/inventory/lead time, please contact us  
 Website: <https://www.heisener.com>  
 E-mail: [salesdept@heisener.com](mailto: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.


**SCTWA50N120 Specifications**

Manufacturer Part Number	<a href="#">SCTWA50N120</a>
Manufacturer	STMicroelectronics
Category	Discrete Semiconductor Products <a href="#">Transistors - FETs, MOSFETs - Single</a>
Package	TO-247-3
Series	-
FET Type	N-Channel
Technology	SiCFET (Silicon Carbide)
Drain to Source Voltage (Vdss)	1200V
Current - Continuous Drain (Id) @ 25°C	65A (Tc)
Drive Voltage (Max Rds On, Min Rds On)	20V
Vgs(th) (Max) @ Id	3V @ 1mA
Gate Charge (Qg) (Max) @ Vgs	122nC @ 20V
Input Capacitance (Ciss) (Max) @ Vds	1900pF @ 400V
Vgs (Max)	+25V, -10V
FET Feature	-
Power Dissipation (Max)	318W (Tc)
Rds On (Max) @ Id, Vgs	69 mOhm @ 40A, 20V
Operating Temperature	-55°C ~ 200°C (TJ)
Mounting Type	Through Hole
Supplier Device Package	HiP247?
Package / Case	TO-247-3

[Report errors?](#)

## SCTWA50N120 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.

## SCTWA50N120 Payment Methods



## SCTWA50N120 Shipping Methods



If you have any question about SCTWA50N120, please do not hesitate to contact us!

Website: <https://www.heisener.com>

E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)