





# NTH4L040N120SC1

Manufacturer Part Number	<b>NTH4L040N120SC1</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-NTH4L040N120SC1
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	SICFET N-CH 1200V 58A TO247-4
Package	TO-247-4
Data sheet	<a href="#">NTH4L040N120SC1.pdf</a>
RoHs Status	 ROHS3 Compliant



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NTH4L040N120SC1 - onsemi.New Original in Stock. Download Linear Technology NTH4L040N120SC1 datasheet/specifications on AllelcoElec.com.  
Request a quote for NTH4L040N120SC1, please send us email: [info@allelco.com](mailto:info@allelco.com)





## Specifications

NTH4L040N120SC1 Tech Specifications  
NTH4L040N120SC1 - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4.3V @ 10mA	Mounting Type	Through Hole
Vgs (Max)	+25V, -15V	Input Capacitance (Ciss) (Max) @ Vds	1762 pF @ 800 V
Technology	SICFET (Silicon Carbide)	Gate Charge (Qg) (Max) @ Vgs	106 nC @ 20 V
Supplier Device Package	TO-247-4L	FET Type	N-Channel
Series	-	FET Feature	-
Rds On (Max) @ Id, Vgs	56mOhm @ 35A, 20V	Drive Voltage (Max Rds On, Min Rds On)	20V
Power Dissipation (Max)	319W (Tc)	Drain to Source Voltage (Vdss)	1200 V
Package / Case	TO-247-4	Current - Continuous Drain (Id) @ 25°C	58A (Tc)
Package	Tube	Base Product Number	NTH4L040

## Parts with Similar Specifications


The three parts on the right have similar specifications to onsemi NTH4L040N120SC1

Product Attribute	 NO PICTURE			
Part Number	NTH4L040N120SC1	NTH4L040N65S3F	NTH4L080N120SC1	NTH5G16P35A331J07TH
Manufacturer	onsemi	onsemi	onsemi	Murata Power Solutions
Gate Charge (Qg) (Max) @ Vgs	106 nC @ 20 V	158 nC @ 10 V	56 nC @ 20 V	-
Vgs(th) (Max) @ Id	4.3V @ 10mA	5V @ 2.1mA	4.3V @ 5mA	-
Series	-	FRFET®, SuperFET® III	-	-
Vgs (Max)	+25V, -15V	±30V	+25V, -15V	-
Package	Tube	Tube	Tube	-
Rds On (Max) @ Id, Vgs	56mOhm @ 35A, 20V	40mOhm @ 32.5A, 10V	110mOhm @ 20A, 20V	-
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-
Base Product Number	NTH4L040	NTH4L040	NTH4L080	-
Input Capacitance (Ciss) (Max) @ Vds	1762 pF @ 800 V	5940 pF @ 400 V	1670 pF @ 800 V	-
Drive Voltage (Max Rds On, Min Rds On)	20V	10V	20V	-
Supplier Device Package	TO-247-4L	TO-247-4L	TO-247-4L	-
Package / Case	TO-247-4	TO-247-4	TO-247-4	-
FET Feature	-	-	-	-
Technology	SICFET (Silicon Carbide)	MOSFET (Metal Oxide)	SICFET (Silicon Carbide)	-
Drain to Source Voltage (Vdss)	1200 V	650 V	1200 V	-
Power Dissipation (Max)	319W (Tc)	446W (Tc)	170W (Tc)	-
FET Type	N-Channel	N-Channel	N-Channel	-
Mounting Type	Through Hole	Through Hole	Through Hole	-
Current - Continuous Drain (Id) @ 25°C	58A (Tc)	65A (Tc)	29A (Tc)	-


## NTH4L040N120SC1 Datasheet PDF


Download NTH4L040N120SC1 pdf datasheets and onsemi documentation for NTH4L040N120SC1 - onsemi.

### Datasheets

 [NTH4L040N120SC1.pdf](#)

### Environmental Information

 [onsemi REACH.pdf](#)


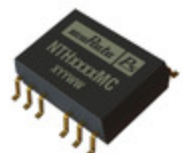

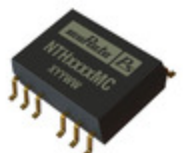




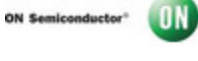
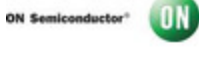








 [onsemi RoHS.pdf](#)

### PCN Design/Specification

PCN Packaging

Customers Also Interested in

Recommended Products

 <b>NTH5G16P35A331J07TH</b> Murata Power Solutions	 <b>NTH1212MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-12V 2W	 <b>NTH437AGT</b> Pulse Electronics	 <b>NTH1205MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-5V 2W	 <b>NTH456AAT</b> Pulse Electronics FIXED IND	 <b>NTH582AAT</b> Pulse Electronics FIXED IND
 <b>NTH441CT</b> Pulse Electronics	 <b>NTH1215MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-15V 2W	 <b>NTH4L040N65S3F</b> onsemi MOSFET N-CH 650V 65A TO247-4	 <b>NTH4L080N120SC1</b> onsemi SICFET N-CH 1200V 29A TO247-4	 <b>NTH5G16P40B473J07</b> Murata Power Solutions	 <b>NTH1209MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-9V 2W
 <b>NTH5G16P41B683J07H</b> Murata Power Solutions	 <b>NTH5G16P41B683J07TH</b> Murata Power Solutions	 <b>NTH5G16P35A221J07TH</b> Murata Power Solutions	 <b>NTH407BDG</b> Pulse Electronics	 <b>NTH05HC-32.768</b> N/A	 <b>NTH08HB3-30.000</b> Pericom Semiconductor Corp. (Diodes Incorporated)

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00




Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

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Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
 Phone: +00852 9146 4856  
 Fax: +00852 3010 8510  
 Email: info@Allelco.com