





NVHL040N120SC1

Manufacturer Part Number	NVHL040N120SC1
Manufacturer	onsemi
Allelco Part Number	32D-NVHL040N120SC1
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	SICFET N-CH 1200V 60A TO247-3
Package	TO-247-3
Data sheet	NVHL040N120SC1.pdf
RoHs Status	 ROHS3 Compliant



Get a Quote

NVHL040N120SC1 - onsemi.New Original in Stock. Download Linear Technology NVHL040N120SC1 datasheet/specifications on AllelcoElec.com.

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Specifications





NVHL040N120SC1 Tech Specifications

NVHL040N120SC1 - 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	1781 pF @ 800 V
Technology	SICFET (Silicon Carbide)	Gate Charge (Qg) (Max) @ Vgs	106 nC @ 20 V
Supplier Device Package	TO-247-3	FET Type	N-Channel
Series	Automotive, AEC-Q101	FET Feature	-
Rds On (Max) @ Id, Vgs	56mOhm @ 35A, 20V	Drive Voltage (Max Rds On, Min Rds On)	20V
Power Dissipation (Max)	348W (Tc)	Drain to Source Voltage (Vdss)	1200 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	60A (Tc)
Package	Tube	Base Product Number	NVHL040

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi NVHL040N120SC1

Product Attribute	 NO PICTURE			
Part Number	NVHL040N120SC1	IAUA250N04S6N006AUMA1	IXFH230N10T	IRFD220
Manufacturer	onsemi	Infineon Technologies	IXYS	Vishay Siliconix
Drive Voltage (Max Rds On, Min Rds On)	20V	7V, 10V	10V	10V
Current - Continuous Drain (Id) @ 25°C	60A (Tc)	450A (Tj)	230A (Tc)	800mA (Ta)
FET Feature	-	-	-	-
Package / Case	TO-247-3	5-PowerSFN	TO-247-3	4-DIP (0.300", 7.62mm)
Rds On (Max) @ Id, Vgs	56mOhm @ 35A, 20V	0.64mOhm @ 100A, 10V	4.7mOhm @ 500mA, 10V	800mOhm @ 480mA, 10V
Power Dissipation (Max)	348W (Tc)	250W (Tc)	650W (Tc)	1W (Ta)
Package	Tube	Tape & Reel (TR)	Tube	Tube
Base Product Number	NVHL040	IAUA250	IXFH230	IRFD220
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs (Max)	+25V, -15V	±20V	±20V	±20V
Technology	SICFET (Silicon Carbide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Mounting Type	Through Hole	Surface Mount	Through Hole	Through Hole
Series	Automotive, AEC-Q101	OptiMOS™	HiPerFET™, Trench	-
Input Capacitance (Ciss) (Max) @ Vds	1781 pF @ 800 V	11064 pF @ 25 V	15300 pF @ 25 V	260 pF @ 25 V
Vgs(th) (Max) @ Id	4.3V @ 10mA	3V @ 145µA	4.5V @ 1mA	4V @ 250µA
Supplier Device Package	TO-247-3	PG-HSOF-5-4	TO-247AD (IXFH)	4-HVMDIP
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)
Drain to Source Voltage (Vdss)	1200 V	40 V	100 V	200 V
Gate Charge (Qg) (Max) @ Vgs	106 nC @ 20 V	169 nC @ 10 V	250 nC @ 10 V	14 nC @ 10 V

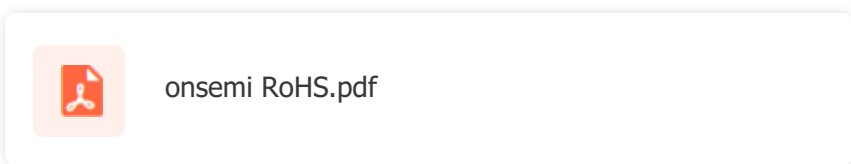
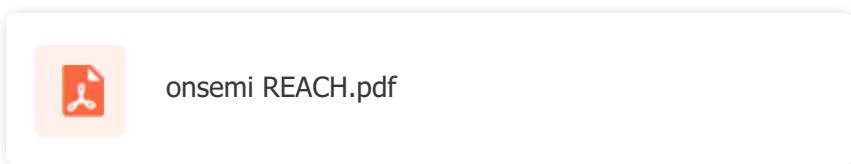
NVHL040N120SC1 Datasheet PDF

Download NVHL040N120SC1 pdf datasheets and onsemi documentation for NVHL040N120SC1 - onsemi.

Datasheets



Environmental Information













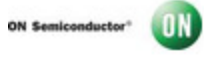

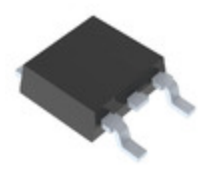





PCN Packaging



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Recommended Products

 IAUA250N04S6N006AUM Infineon Technologies MOSFET_(20V 40V) PG-HSOF-5	 IXFH230N10T IXYS MOSFET N-CH 100V 230A TO247AD	 IRFD220 Vishay Siliconix MOSFET N-CH 200V 800MA 4DIP	 ZVNL120A Diodes Incorporated MOSFET N-CH 200V 180MA TO92-3	 FQP19N20C Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	 NVHL027N65S3F onsemi MOSFET N-CH 650V 75A TO247-3
 STO36N60M6 STMicroelectronics MOSFET N-CH 600V 30A TOLL	 NVHL082N65S3F onsemi MOSFET N-CH 650V 40A TO247-3	 BSZ042N04NSG Infineon Technologies MOSFET N-CH 40V 40A TO220AB	 ZXM61P02FTA Diodes Incorporated MOSFET P-CH 20V 900MA SOT23-3	 NVHL110N65S3F onsemi MOSFET N-CH 650V 30A TO247-3	 IXFK32N50Q IXYS MOSFET N-CH 500V 32A TO264AA
 NVH4L080N120SC1 onsemi SICFET N-CH 1200V 29A TO247-4	 FQP50N06L Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 5	 NVATS4A103PZT4G onsemi MOSFET P-CHANNEL 30V 60A ATPAK	 SI7113ADN-T1-GE3 Vishay Siliconix MOSFET P-CH 100V 10.8A PPAK	 AUIRF2903ZS International Rectifier MOSFET N-CH 30V 160A D2PAK	 STH3N150-2 STMicroelectronics MOSFET N-CH 1500V 2.5A H2PAK

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.
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(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.

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The payment method can be chosen from the methods shown below:
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