

Product Overview

NVBG160N120SC1: Silicon Carbide MOSFET, N-Channel, 1200 V, 160 mΩ , D2PAK-7L

For complete documentation, see the data sheet.

Silicon Carbide (SiC) MOSFET uses a completely new technology that provide superior switching performance and higher reliability compared to Silicon. In addition, the low ON resistance and compact chip size ensure low capacitance and gate charge. Consequently, system benefits include highest efficiency, faster operation frequency, increased power density, reduced EMI, and reduced system size.

Features

- Qualified for Automotive According to AEC-Q101
- 1200V rated
- High Speed Switching and Low Capacitance
- 100% UIL Tested
- Devices are RoHS Compliant

Benefits

- Automotive Grade

Applications

- High power DCDC
- Inverter

End Products

- Automotive DC/DC converter for EV/PHEV
- Automotive Inverters

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	Blocking Voltage BV_{DSS} (V)	$I_{D(max)}$ (A)	$R_{DS(on)}$ Typ @ 25°C (mΩ)	Q_g Total (C)	Output Capacitance (C)	T_j Max (°C)	Package Type
NVBG160N120SC1	4.2666	AEC Qualified PPAP Capable Pb-free Halide free	NEW	N-Channel	Single	1200	19.5	160	33.8	50.7	175	D2PAK7 (TO-263-7L HV)

For more information please contact your local sales support at www.onsemi.com.

Created on: 9/14/2020