

## **Product Overview**

# NVH820S75L4SPB: Automotive 750V, 820A Single Side Direct Cooling 6-Pack Power Module

For complete documentation, see the data sheet.



The NVH820S75L4SPB is a power module from the VE-Trac™ Direct family of highly integrated power modules with industry-standard footprints for Hybrid and Electric Vehicle (HEV) traction inverter application.

The module integrates six Field Stop 4 (FS4) 750V Narrow Mesa IGBTs in a 6-pack configuration. FS4 IGBTs show low power losses during lighter loads, which helps to improve overall system efficiency in automotive applications. For assembly ease and reliability, a new generation of press-fit pins is integrated into the power module signal terminals.

### **Features**

- · Direct Cooling with Integrated Pin-Fin Heatsink
- · Ultra-low Stray Inductance
- Tjmax = 175°C continuous operation
- · Low VCESAT and Switching losses
- AQG324 Qualified FS4 750V Narrow Mesa IGBT
- · Highly Integrated 6-pack Topology

## **Applications**

- · Converter DC Battery Output to Power AC Traction Motors
- · High Power DC-DC Converter

## **Benefits**

- · Low System Cost
- · Lower Energy Losses
- · Higher Inverter Peak Output Power
- · Improved Inverter Efficiency
- · Optimized for Automotive Traction Applications
- · Easy Design and Integration

#### **End Products**

 Main Traction Inverter for Battery Electric Vehicle, Plug-in Hybrid Vehicles, and Full Hybrid Vehicles

Part Electrical Specifications										
Product	Pricing (\$/Unit)	Compliance	Status	Configuratio n	V <sub>BR</sub> Max (V)	Rated Current (A)	V <sub>CE(sat)</sub> Typ	V <sub>F</sub> Typ (V)	Application	Package Type
NVH820S75L4SPB	429.3226	Pb-free Halide free	NEW	Six Pack	750	820	1.3	1.7	Automotive	SSDC33, 154.50x92.0 (SPB)

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

Created on: 7/24/2020