

Automotive 750 V, 800 A Dual Side Cooling Half-Bridge Power Module

VE-Trac™ Dual NVG800A75L4DSC

Product Description

The NVG800A75L4DSC is part of a family of power modules with dual side cooling and compact footprints for Hybrid (HEV) and Electric Vehicle (EV) traction inverter application.

The module consists of two Field Stop 4 (FS4) 750 V Narrow Mesa IGBTs in a half-bridge configuration. The chipset utilizes the new narrow mesa IGBT technology in providing high current density and robust short circuit protection with higher blocking voltage to deliver outstanding performance in EV traction applications.

Features

- Dual-Side Cooling
- Integrated Chip Level Temperature and Current Sensor
- $T_{vj\ max} = 175^{\circ}\text{C}$ for Continuous Operation
- Ultra-low stray inductance
- Low V_{CESAT} and Switching Losses
- Automotive Grade FS4 & Fast Diode Chip Technologies
- 4.2 kV Isolated DBC Substrate
- AEC Qualified and PPAP Capable
- This Device is Pb-Free and is RoHS Compliant

Typical Applications

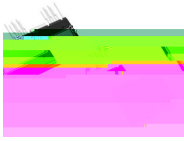
- Hybrid and Electric Vehicle Traction Inverter

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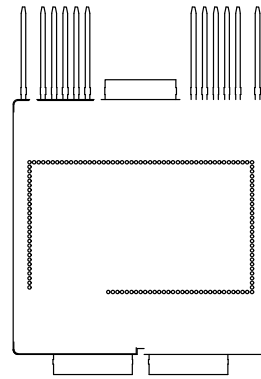
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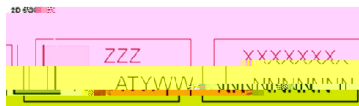
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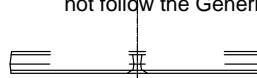


GENERIC MARKING DIAGRAM*



- ZZZ = Assembly Lot Code
- AT = Assembly & Test Site Code
- Y = Year
- WW = Work Week
- XXXX = Specific Device Code
- NNN = Serial Number

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.



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