THINK ON.

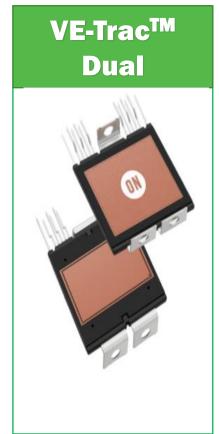
VE-TracTM Direct

Vehicle Electrification Traction Power Integrated Modules

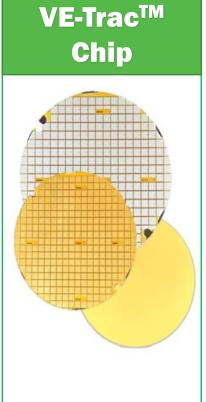


VE-Trac[™] (Vehicle Electrification for Traction) Product Family

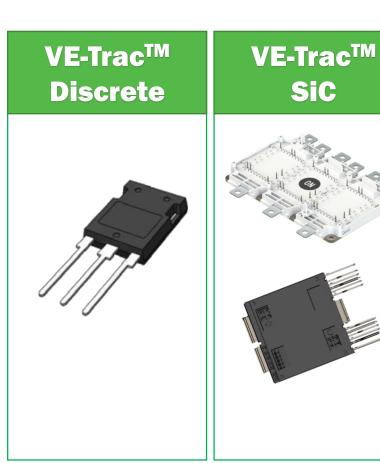
- Versatile & innovative solutions to power vehicle electrification into the future
- Uncompromised cost, quality & performance













VE-Trac[™] **Direct**

Features

- Direct Cooling with Integrated Pin-Fin Heatsink
- Ultra-low Stray Inductance of 8nH
- Tjmax = 175°C continuous operation
- Low VCESAT and Switching losses
- AQG324 Qualified FS4 750V Narrow Mesa IGBT
- Highly Integrated 6-pack Topology

Benefits

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

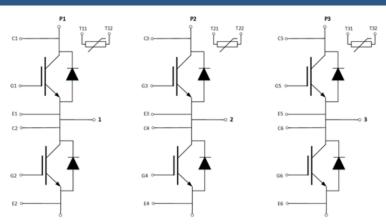
750V Line-up

Product	Voltage	Current	Configuration	Status	RTM
NVH820S75L4SPB	750V	820A	Pin-fin short tab	Released	Q4'19
NVH820S75L4SPC	750V	800A	Pin-fin long tab	Qualified	Q1'20
NVH950S75L4SPB	750V	600A	Pin-fin, Si₃N₄ short tab	Active sampling	Q2'20
NVH600S75L4SPB C	750V	600A	Pin-fin	Active sampling	Q2'20
NVH660S75L4SPFB C	750V	660A	Flat base-plate	Active sampling	Q3'20

1200V Line-up

Product	Voltage	Current	Configuration	Status	RTM
NVH550S120L3SPB C	1200V	550A	Pin-fin	In development	1H'2021
NVH660S120L3SPB C	1200V	660A	Pin-fin, Si ₃ N ₄	In development	2H'2021

Block Diagram



Target Application

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

Package: 155mm X 100mm X 32mm





VE-TracTM Direct Value Proposition

