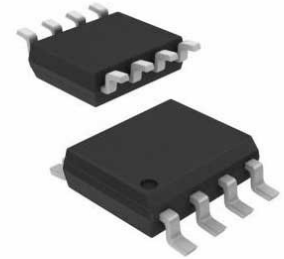


## Current Limit SW 1-IN 1-OUT to 3.5A Automotive 8-Pin SO N T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [STMicroelectronics, Inc](#)

**Package/Case:** SOP8

**Product Type:** Switches

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The VNL5160N3-E and VNL5160S5-E are monolithic devices, made using STMicroelectronics VIPower Technology, intended for driving resistive or inductive loads with one side connected to the battery. Built-in thermal shutdown protects the chip from overtemperature and short circuit. Output current limitation protects the devices in an overload condition. In the case of a long duration overload, the device limits the dissipated power to a safe level up to thermal shutdown intervention. Thermal shutdown, with automatic restart, allows the device to recover normal operation as soon as a fault condition disappears. Fast demagnetization of inductive loads is achieved at turn-off.

### Key Features

- Automotive qualified
- Drain current:3.5A
- ESD protection
- Overvoltage clamp
- Thermal shutdown
- Current and power limitation
- Very low standby current
- Very low electromagnetic susceptibility
- In compliance with the 2002/95/EC European directive
- Open drain status output (VNL5160S5-E only)
- Specially intended for R10W or 2x R5W automotive signal lamps

### Recommended For You

**VNS050JTR-E**

STMicroelectronics, Inc  
HSSOP12

**VNLD5160TR-E**

STMicroelectronics, Inc  
SOP8

**VND5T050AKTR-E**

STMicroelectronics, Inc  
SSOP24

**VNS3NV04PTR-E**

STMicroelectronics, Inc  
SOP8

**VN7003ALHIR**

STMicroelectronics, Inc  
Octapak-7

**VND7140AJ12TR**

STMicroelectronics, Inc  
HSSOP12

**VN330SP-E**

STMicroelectronics, Inc  
HSOP10

**VNL5050N3TR-E**

STMicroelectronics, Inc  
SOT-223

**VNB35NV04TR-E**

STMicroelectronics, Inc  
TO-263

**VN7007AHIR**

STMicroelectronics, Inc  
TO252-7

**VNV35N07**

STMicroelectronics, Inc  
HSOP10

**VND5050AJTR-E**

STMicroelectronics, Inc  
HSSOP12

**VND5E160AJTR-E**

STMicroelectronics, Inc  
HSSOP12

**VNN7NV04PTR-E**

STMicroelectronics, Inc  
SOT223

**VN7004CLHIR**

STMicroelectronics, Inc  
TO-252