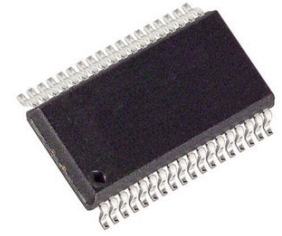


## Current Limit SW 4-IN 4-OUT to 48A Automotive 36-Pin PowerSSO EP T/R



Images are for reference only

[Inquiry](#)

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

**Package/Case:** HSSOP36

**Product Type:** Switches

**Lifecycle:** Active

### General Description

The device is a quad channel high-side driver manufactured using the latest ST proprietary VIPower technology and housed in a PowerSSO-36 package. The device is designed to drive 12 V automotive grounded loads through a 3 V and 5 V CMOS-compatible interface, and to provide protection and diagnostics. The device integrates advanced protective functions such as load current limitation, overload active management by power limitation and overtemperature shutdown with configurable latch-off.

A FaultRST pin unlatches the output in case of fault or disables the latch-off functionality.

A dedicated multifunction multiplexed analog output pin delivers sophisticated diagnostic functions such as high precision proportional load current sense, supply voltage feedback and chip temperature sense, in addition to the detection of overload and short circuit to ground, short to VCC and OFF-state open-load.

The device features a dedicated LED Mode.

### Key Features

AEC-Q100 qualified

General

Quad channel smart high-side driver with MultiSense analog feedback

LED Mode for channel 0 and 1

Very low standby current

Compatible with 3 V and 5 V CMOS outputs

Quad channel smart high-side driver with MultiSense analog feedback

LED Mode for channel 0 and 1

Very low standby current

Compatible with 3 V and 5 V CMOS outputs

MultiSense diagnostic functions

Multiplexed analog feedback of:

Load current with high precision proportional current mirror;

VCC supply voltage;

TCHIP device temperature

Overload and short to ground (power limitation) indication

Thermal shutdown indication

OFF-state open load detection

Output short to VCC detection

Sense enable/disable

Multiplexed analog feedback of:

Load current with high precision proportional current mirror;

VCC supply voltage;

TCHIP device temperature

Overload and short to ground (power limitation) indication

Thermal shutdown indication

OFF-state open load detection

Output short to VCC detection

Sense enable/disable

Protections

Undervoltage shutdown

Overvoltage clamp

Load current limitation

Self limiting of fast thermal transients

Configurable latch-off on overtemperature or power limitation with dedicated fault reset pin

Loss of ground and loss of VCC

Reverse battery through self turn-on

Electrostatic discharge protection

Undervoltage shutdown

Overvoltage clamp

Load current limitation

Self limiting of fast thermal transients

Configurable latch-off on overtemperature or power limitation with dedicated fault reset pin

Loss of ground and loss of VCC

Reverse battery through self turn-on

Electrostatic discharge protection

## Recommended For You

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### **VN5050JTR-E**

STMicroelectronics, Inc

HSSOP12

### **VNLD5160TR-E**

STMicroelectronics, Inc

SOP8

### **VND5T050AKTR-E**

STMicroelectronics, Inc

SSOP24

### **VNS3NV04PTR-E**

STMicroelectronics, Inc

SOP8

### **VN7003ALHTR**

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

### **VN7007AHTR**

STMicroelectronics, Inc

TO252-7

### **VNV35N07**

STMicroelectronics, Inc

HSOP10

### **VND5050AJTR-E**

STMicroelectronics, Inc

HSSOP12

### **VND5E160AJTR-E**

STMicroelectronics, Inc

HSSOP12

### **VNN7NV04PTR-E**

STMicroelectronics, Inc

SOT223

### **VN7004CLHTR**

STMicroelectronics, Inc

TO-252