

# VN5050AJTR-E

# Current Limit SW 1-IN 1-OUT to 23A Automotive 12-Pin PowerSSO EP T/R

Manufacturer:	STMicroelectronics, Inc.
Package/Case:	HSSOP12
Product Type:	Switches
Lifecycle:	Active



Images are for reference only

Inquiry

#### **General Description**

The VN5050AJ-E is a monolithic device made using STMicroelectronics VIPower technology. It is intended for driving resistive or inductive loads with one side connected to ground. Active VCC pin voltage clamp protects the device against low energy spikes (see ISO7637 transient compatibility table).

This device integrates an analog current sense which delivers a current proportional to the load current (according to a known ratio) when CS\_DIS is driven low or left open.

When CS\_DIS is driven high, the CURRENT SENSE pin is in a high impedance condition. Output current limitation protects the device in overload condition. In case of long overload duration, the device limits the dissipated power to safe level up to thermal shut-down intervention. Thermal shut-down with automatic restart allows the device to recover normal operation as soon as fault condition disappears.

#### **Key Features**

General featuresInrush current active management by power limitationVery low stand-by current3.0V CMOS compatible inputOptimized electromagnetic emissionVery low electromagnetic susceptibilityIn compliance with the 2002/95/EC European directive

ProtectionUndervoltage shut-downOvervoltage clampLoad current limitationSelf limiting of fast thermal transientsProtection against loss of ground and loss of VCCThermal shut down

Diagnostic functionsProportional load current senseHigh current sense precision for wide range currentsCurrent sense disableThermal shutdown indicationVery low current sense leakage

# **Recommended For You**

VN5050JTR-E	VNLD5160TR-E	VND5T050AKTR-E
STMicroelectronics, Inc	STMicroelectronics, Inc	STMicroelectronics, Inc
HSSOP12	SOP8	SSOP24
VNS3NV04PTR-E	VN7003ALHIR	VND7140AJ12TR
STMicroelectronics, Inc	STMicroelectronics, Inc	STMicroelectronics, Inc
SOP8	Octapak-7	HSSOP12

## AVAQ SEMICONDUCTOR CO., LIMITED

#### VN330SP-E

STMicroelectronics, Inc

HSOP10

#### VN7007AHIR

STMicroelectronics, Inc TO252-7

#### VND5E160AJTR-E

STMicroelectronics, Inc

HSSOP12

#### VNL5050N3TR-E

STMicroelectronics, Inc SOT-223

# VNV35N07

STMicroelectronics, Inc HSOP10

VNN7NV04PTR-E

STMicroelectronics, Inc SOT223

#### VNB35NV04TR-E

STMicroelectronics, Inc TO-263

### VND5050AJTR-E

STMicroelectronics, Inc HSSOP12

#### VN7004CLHIR

STMicroelectronics, Inc TO-252