

Current Limit SW 1-IN 1-OUT to 26.5A Automotive 12-Pin PowerSSO EP T/R

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

VN5050JTR-E Image

Images are for reference only

[Inquiry](#)

General Description

The VN5050J-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). The device detects open load condition both in on and off state, when STAT_DIS is left open or driven low. Output shorted to VCC is detected in the off state.

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

Key Features

Main Inrush current active management by power limitation Very low stand-by current 3.0V CMOS compatible input Optimized electromagnetic emission Very low electromagnetic susceptibility In compliance with the 2002/95/EC

Protections Undervoltage shut-down Overvoltage clamp Output stuck to VCC detection Load current limitation Self limiting of fast thermal transients Protection against loss of ground and loss of VCC Thermal shutdown Reverse battery protection (see Figure 27)

Diagnostic functions Open drain status output On state open load detection Off state open load detection Thermal shutdown indication



Recommended For You

VNLD5160TR-E

STMicroelectronics, Inc
SOP8

VND5T050AKTR-E

STMicroelectronics, Inc
SSOP24

VNS3NV04PIR-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

VND10N06TR-E

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TO252