

Current Limit SW 2-IN 2-OUT to 84A Automotive 24-Pin PowerSSO EP T/R

Manufacturer:	STMicroelectronics, Inc
Package/Case:	SSOP24
Product Type:	Switches
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The VND5012AK-E is a monolithic device made using STMicroelectronics VIPower M0-5 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 shutdown intervention. Thermal shutdown with automatic restart allows the device to recover normal operation as soon as fault condition disappears.

Key Features

General features: Inrush current active management by power limitation, Very low standby current 3.0V CMOS compatible input, Optimized electromagnetic emission, Very low electromagnetic susceptibility, In compliance with the 2002/5 Protections: Undervoltage shutdown, 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, Diagnostic functions: Proportional load current sense, High current sense precision for wider range currents, Current sense disable, Thermal shutdown indication, Very low current sense leakage

Recommended For You

VNS050JTR-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