

Current Limit SW 4-IN 4-OUT to 41V 0.6A 24-Pin PowerSSO EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: SSOP24

Product Type: Switches

Lifecycle: Active

General Description

The VNI4140K is a monolithic device made using STMicroelectronics VIPower technology, intended to drive four independent resistive or inductive loads with one side connected to ground. Active current limitation avoids dropping the system power supply in case of shorted load. Built-in thermal shutdown protects the chip from overtemperature and short-circuit. In overload conditions, channel turns OFF and back ON automatically so to maintain junction temperature between TTSD and TR. If this condition makes case temperature reach TCSD, overloaded channel is turned OFF and restart only when case temperature has decreased down to TCR. In case of more than one channel in overload, restart of the overloaded channels is not simultaneous, in order to avoid high peak current from the supply. Non-overloaded channels continue operating normally. The open drain diagnostics outputs indicate overtemperature conditions.

Key Features

Outputcurrent:0.7Aperchannel

Shortedloadprotections

Junctionovertemperatureprotection

Caseovertemperatureprotectionforthermalindependenceofthechannels

Thermalcaseshutdownrestartnotsimultaneousforthevariouschannels

Protectionagainstlossofground

Currentlimitation

Recommended For You

VND7NV04TR-E

STMicroelectronics, Inc

TO-252

VN920SP1R-E

STMicroelectronics, Inc

HSOP10

VND830SP1R-E

STMicroelectronics, Inc

SOP10

ACS108-6SA

STMicroelectronics, Inc

TO-92-3(StraightLead

T410-600B-TR

STMicroelectronics, Inc

TO-252

ACS120-7ST

STMicroelectronics, Inc

TO-220

T410-600T

STMicroelectronics, Inc

TO-220

ACS302-5T3

STMicroelectronics, Inc

SO-20

BIB16-800CWRG

STMicroelectronics, Inc

TO-220

BTA16-800BWRG

STMicroelectronics, Inc

TO-220

BTB24-800BRG

STMicroelectronics, Inc

TO-220AB

TN1215-800G-TR

STMicroelectronics, Inc

TO-263

T435-800B-TR

STMicroelectronics, Inc

TO-252

ACS102-6T1-TR

STMicroelectronics, Inc

SOP-8

BTA24-600CWRG

STMicroelectronics, Inc

TO-220