

Current Limit SW 1-IN 2-OUT 2.7V to 5.5V 0.5A 8-Pin SO N T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: SOP8

Product Type: Switches

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The STMPS2242/2252/2262/2272 power distribution switches are intended for applications where heavy capacitive loads and short-circuits are likely to be encountered. These devices incorporate 100 mΩ MOSFET high-side power switches for power distribution systems that require multiple power switches in a single package.

Each switch is controlled by an independent logic enable input. When the output load exceeds the current limit threshold or a short is present, these devices limit the output current to a safe level by switching into a constant current mode, pulling the overcurrent (OCx) logic output low. When continuous heavy overloads and short-circuits increase the power dissipation in the switch, causing the junction temperature to rise, a thermal protection circuit shuts off the switch to prevent damage. Recovery from a thermal shutdown is automatic once the device has cooled sufficiently. Internal circuitry ensures the switch remains off until valid input voltage is present.

Key Features

100 mΩ high-side MOSFET switch

500 mA/1000 mA continuous current per channel

Thermal protection

Independent short-circuit protection with overcurrent logic output

Operating range from 2.7 V to 5.5 V

CMOS and TTL compatible inputs

2.5 ms typical rise time

Recommended For You

STIS14PHR

STMicroelectronics, Inc
HSOP-8

ST890CDR

STMicroelectronics, Inc
SOP-8

STWD100YNYWY3F

STMicroelectronics, Inc
SOT23-5

STC3100IQT

STMicroelectronics, Inc
QFN

STM706TM6F

STMicroelectronics, Inc
SOP-8

STWD100NYWY3F

STMicroelectronics, Inc
SOT23-5

STPD01PUR

STMicroelectronics, Inc
24-QFN

STGAP2SICSNTR

STMicroelectronics, Inc
SOIC-8

STSPIN230

STMicroelectronics, Inc
VFQFPN16

STNS01PUR

STMicroelectronics, Inc
DFN-12

STWBC

STMicroelectronics, Inc
QFN32

STWBC2

STMicroelectronics, Inc
SOP

STMPS2171MIR

STMicroelectronics, Inc
SO-8

STSPIN240

STMicroelectronics, Inc
QFN16

STMPS2151MIR

STMicroelectronics, Inc
SOP8