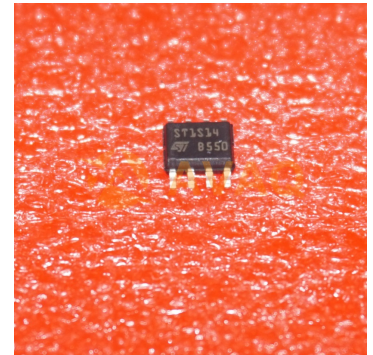


Conv DC-DC 5.5V to 48V Step Down Single-Out 1.22V 3A 8-Pin HSOP EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: HSOP-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The ST1S14 is a step-down monolithic power switching regulator able to deliver up to 3 A DC current to the load depending on the application conditions. The high current level is also achieved thanks to a HSOP8 package with exposed frame, that allows to reduce the $R_{th(JA)}$ down to approximately 40 °C/W. The output voltage can be set from 1.22 V. The device uses an internal N-channel DMOS transistor (with a typical $R_{DS(on)}$ of 200 mΩ) as the switching element to minimize the size of the external components. The internal oscillator fixes the switching frequency at 850 kHz. Power good open collector output validates the regulated output voltage as soon as it reaches the regulation. Pulse-by-pulse current limit offers an effective constant current short-circuit protection. Current foldback decreases overstress in a persistent short-circuit condition.

Key Features

3 A DC output current

Operating input voltage from 5.5 V to 48 V

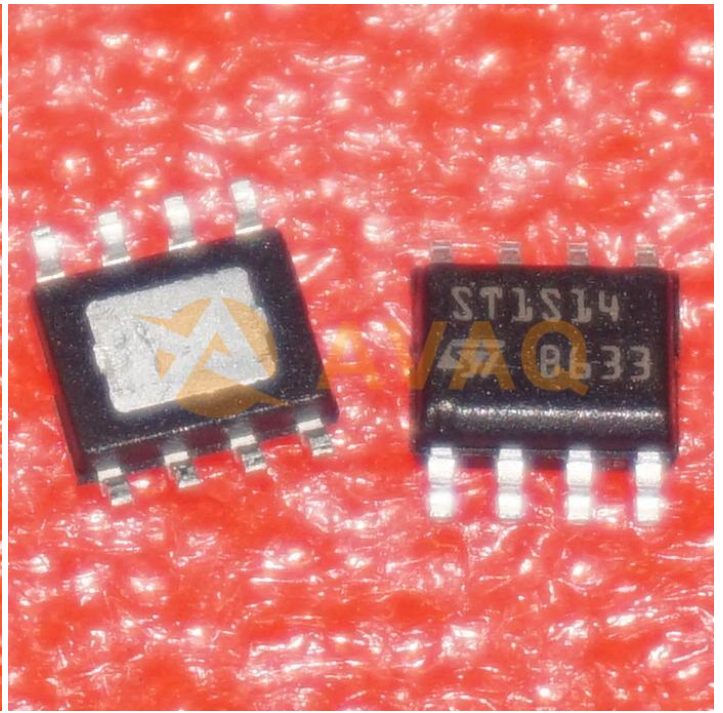
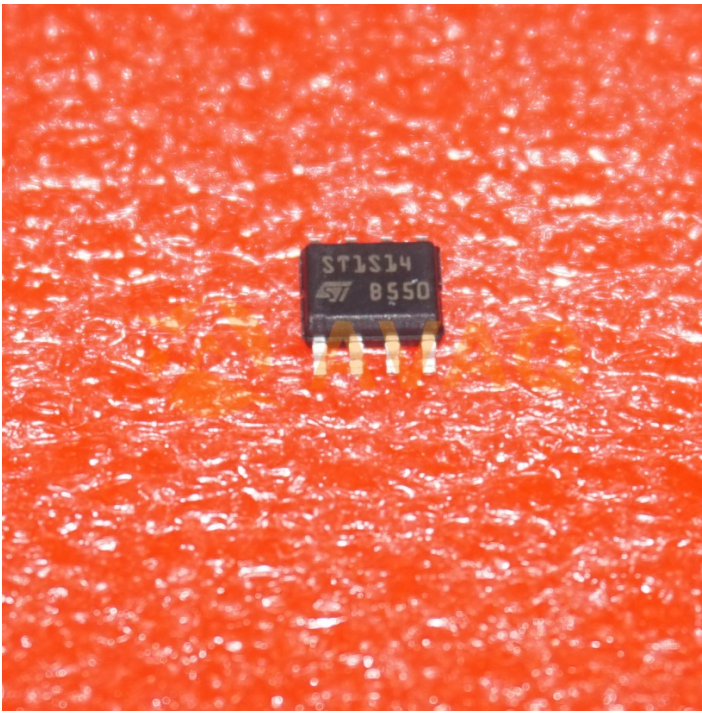
850 kHz internally fixed switching frequency

Internal soft-start

Power good open collector output

Current mode architecture

Embedded compensation network



Recommended For You

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

STGAP2SICSNIR

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

STC3115IJT

STMicroelectronics, Inc

CSP-10