

## **STNS01PUR**

## Linear Battery Charger Li-Ion 200mA 4.2V 12-Pin DFN EP T/R

Manufacturer:	STMicroelectronics, Inc.
Package/Case:	DFN-12
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free W
Lifecycle:	Active



Images are for reference only

Inquiry

## **General Description**

The STNS01 is a linear charger for single-cell Li-Ion batteries integrating an LDO regulator and several battery protection functions.

The STNS01 uses a CC/CV algorithm to charge the battery; the fast-charge current can be programmed using an external resistor. Pre-charge current and termination current are scaled accordingly. The floating voltage value is 4.2 V. The input supply voltage is normally used to charge the battery and provide power to the LDO regulator. When a valid input voltage is not present and the battery is not empty, the device automatically switches to battery power. The STNS01 integrates overcharge, over-discharge and overcurrent protection circuitry to prevent the battery from being damaged under fault conditions. It also features a charger enable input to stop the charging process when battery overtemperature is detected by an external circuitry. When the shutdown mode is activated, the battery power consumption is reduced to less than 500 nA to maximize battery life during shelf time or shipping. The device is available in the DFN12L (3x3x0.75 mm) package.

## **Key Features**

Chargessingle-cellLi-IonbatterieswithCC/CValgorithmandchargetermination

Chargecurrentprogrammableupto200mA

1%accuracyonfloatingvoltage(4.2V)

Integrated3.1VLDOregulator

Automatic powerpathmanagement

Batteryoverchargeprotection

Batteryover-dischargeprotection

## **Recommended For You**

#### ST1S14PHR

STMicroelectronics, Inc

# STC3100IQT

HSOP-8

STMicroelectronics, Inc

## STPD01PUR

STMicroelectronics, Inc

24-QFN

STWBC STMicroelectronics, Inc QFN32

STSPIN240 STMicroelectronics, Inc QFN16

#### ST890CDR

STMicroelectronics, Inc SOP-8

STM706TM6F STMicroelectronics, Inc SOP-8

STGAP2SICSNIR STMicroelectronics, Inc SOIC-8

STWBC2 STMicroelectronics, Inc SOP

STMPS2151MIR STMicroelectronics, Inc SOP8 STWD100YNYWY3F

STMicroelectronics, Inc SOT23-5

STWD100NYWY3F STMicroelectronics, Inc SOT23-5

## STSPIN230

STMicroelectronics, Inc VFQFPN16

STMPS2171MIR STMicroelectronics, Inc SO-8

STC3115IJT STMicroelectronics, Inc CSP-10