

SP Amp Current Sense Amp Single 0V/5.5V 8-Pin SO N T/R

Manufacturer:	STMicroelectronics, Inc.
Package/Case:	SOP8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free W
Lifecycle:	Active



Images are for reference only

General Description

The TSC103 measures a small differential voltage on a high-side shunt resistor and translates it into a ground-referenced output voltage. The gain is adjustable to four different values from 20 V/V up to 100 V/V by two selection pins.

Wide input common-mode voltage range, low quiescent current, and tiny TSSOP8 packaging enable use in a wide variety of applications.

The input common-mode and power-supply voltages are independent. The common-mode voltage can range from 2.9 V to 70 V in the single-supply configuration or be offset by an adjustable voltage supplied on the Vcc- pin in the dual-supply configuration.

With a current consumption lower than $360 \ \mu A$ and a virtually null input leakage current in standby mode, the power consumption in the applications is minimized.

Key Features

Independent supply and input common-mode voltages

Wide common-mode operating range: 2.9 V to 70 V in single-supply configuration, -2.1 V to 65 V in dual-supply configuration

Wide common-mode surviving range: -16 V to 75 V (reversed battery and load-dump conditions)

Supply voltage range: 2.7 to 5.5 V in single-supply configuration

Low current consumption: I

CC

 $max = 360 \ \mu A$

Pin selectable gain: 20 V/V, 25 V/V, 50 V/V or 100 V/V

Buffered output

Recommended For You

AVAQ SEMICONDUCTOR CO., LIMITED

TS30211LT

STMicroelectronics, Inc

SOT23-5

TSZ1211LT STMicroelectronics, Inc

SOT23-5

TS8811LT STMicroelectronics, Inc SOT23-5

TS507CLT STMicroelectronics, Inc SOT23-5

TS30211YLT STMicroelectronics, Inc SOT23-5 TS3911LT STMicroelectronics, Inc

SOT23-5

TS3702CDT STMicroelectronics, Inc SOP-8

TSV9921YDT STMicroelectronics, Inc SOP8

TS339IPT STMicroelectronics, Inc TSSOP14

TSC2010HYDT STMicroelectronics, Inc SOIC-8 TS912AIDT

STMicroelectronics, Inc SOP-8

TSX37021Q2T STMicroelectronics, Inc DFN-8

TS3022IYST STMicroelectronics, Inc MiniSO-8

TSC103IPT STMicroelectronics, Inc TSSOP-8

STMicroelectronics, Inc SOT23-5

TS3021HIYLT