



Audio Amp Speaker 4-CH Stereo 44W Class-SB Automotive 27-Pin FLEXIWATT(Vertical) Tube

Manufacturer: <u>STMicroelectronics, Inc</u>

Package/Case: ZIP27

Product Type: Amplifier ICs

Lifecycle: Active



Images are for reference only

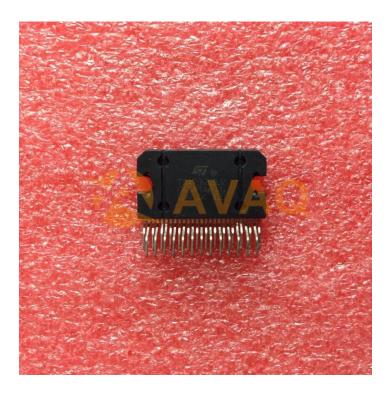
Inquiry

General Description

The TDA75613LV is a new quad bridge car radio amplifier, designed in BCD technology, in order to include a wide range of innovative features in a very compact and flexible device. The TDA75613LV is equipped with the most complete diagnostics array that communicates the status of each speaker through the I2C bus. The dissipated output power under average listening condition is significantly reduced when compared to the conventional class AB solutions, thanks to the patented 'class SB' efficiency concept. TDA75613LV has been designed to be very robust against several kinds of misconnections. The TDA75613LV is equipped with the SSR (speaker safety routine), a procedure able to check the offset at the speakers and automatically shut down the power amplifier in case of dangerous DC voltage. It is moreover compliant to the most recent OEM specifications for low voltage operation (so called 'start-stop' battery profile during engine stop), helping car manufacturers to reduce the overall emissions and thus contributing to environment protection.

Key Features Multipower BCD technology MOSFET output power stage DMOS power output High efficiency (class SB) High output power capability 4x25 W/4 Ω @ 14.4 V, 1 kHz, 10% THD, 4 x 45 W max power 2Ω driving capability (64 W max power) Full I2C bus driving: Standby Independent front/rear soft play/mute Selectable gain 30 dB/16 dB (for low noise line output function) High efficiency enable/disable I2C bus digital diagnostics (including DC and AC load detection) Standby Independent front/rear soft play/mute Selectable gain 30 dB/16 dB (for low noise line output function) High efficiency enable/disable I2C bus digital diagnostics (including DC and AC load detection) Flexible fault detection through integrated diagnostic DC offset detection Four independent short circuit protection Clipping detector pin with selectable threshold (2 %/10 %) Standby/mute pin Linear thermal shutdown with multiple thermal warning ESD protection Very robust against misconnections Improved SVR suppression during battery transients Capable to operate down to 6 V (e.g. "Start-stop")

SSR (speaker safety routine)



Recommended For You

TDA7387EP

STMicroelectronics, Inc

ZIP25

TDA7419

STMicroelectronics, Inc

SOP28

TDA7376B

STMicroelectronics, Inc

ZIP-15

TDA2005R

STMicroelectronics, Inc

ZIP

TDA7850A

STMicroelectronics, Inc

ZIP27

TDA7562

STMicroelectronics, Inc

ZIP27

TDA7561

STMicroelectronics, Inc

ZIP

TDA7851L

STMicroelectronics, Inc

ZIP-25

TDA7801

STMicroelectronics, Inc

ZIP27

TDA7563ASM

STMicroelectronics, Inc

ZIP-27

TDA7296

STMicroelectronics, Inc

ZIP-15

TDA7575B

STMicroelectronics, Inc

ZIP27

TDA7417

STMicroelectronics, Inc

QFP

TDA7388A

STMicroelectronics, Inc

ZIP-27

TDA75610LV

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ZIP27