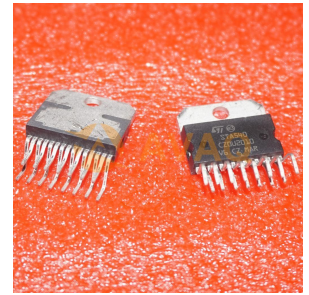


**Audio Amp Speaker 1-CH Mono/2-CH Stereo/4-CH Stereo 34W  
Class-AB 15-Pin(15+Tab) MULTIWATT V Tube**



Images are for reference only

[Inquiry](#)

**Manufacturer:** [STMicroelectronics, Inc](#)

**Package/Case:** ZIP15

**Product Type:** Amplifier ICs

**Lifecycle:** Active

## General Description

The STA540 is a 4-channel, class-AB audio amplifier designed for high quality sound applications. The amplifiers have single-ended outputs with integrated short-circuit protection, thermal protection and diagnostic functions. The chip is housed in the 15-pin Multiwatt ECOPACK®Pb-free package which is RoHS (2002/95/EC) compliant.

## Key Features

High output power capability

2x 38 W into 4 Ω at 18 V, 1 kHz, 10% THD

2x 34 W into 8 Ω at 22 V, 1 kHz, 10% THD

2x 24W into 4Ω at 14.4 V, 1 kHz, 10% THD

2x 15 W into 8 Ω at 16 V, 1 kHz, 10% THD

4x 13 W into 2 Ω at 15 V, 1 kHz, 10% THD

4x 11 W into 4 Ω at 18 V, 1 kHz, 10% THD

4x 7 W into 4 Ω at 14.4 V, 1 kHz, 10% THD

2x 38 W into 4 Ω at 18 V, 1 kHz, 10% THD

2x 34 W into 8 Ω at 22 V, 1 kHz, 10% THD

2x 24W into 4Ω at 14.4 V, 1 kHz, 10% THD

2x 15 W into 8 Ω at 16 V, 1 kHz, 10% THD

4x 13 W into 2 Ω at 15 V, 1 kHz, 10% THD

4x 11 W into 4 Ω at 18 V, 1 kHz, 10% THD

4x 7 W into 4 Ω at 14.4 V, 1 kHz, 10% THD

Minimum external components count:

no bootstrap capacitors

no Boucherot cells

internally fixed gain 20 dB

no bootstrap capacitors

no Boucherot cells

internally fixed gain 20 dB

Standby function (CMOS compatible)

No audible pop during standby operations

Diagnostic facilities:

clip detector

output to GND short-circuit detector

output to VS short-circuit detector

soft short-circuit check at turn-on

thermal shutdown warning

clip detector

output to GND short-circuit detector

output to VS short-circuit detector

soft short-circuit check at turn-on

thermal shutdown warning

Protection

Output AC/DC short circuit

Soft short-circuit check at turn-on

Thermal cutoff/limiter to prevent chip from overheating

High inductive loads

ESD

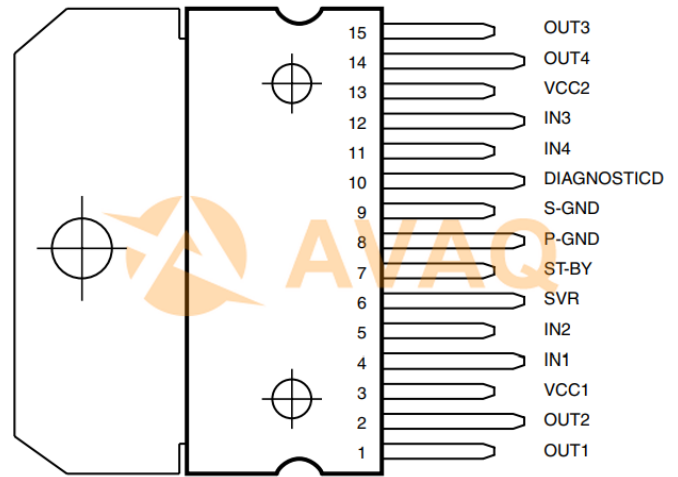
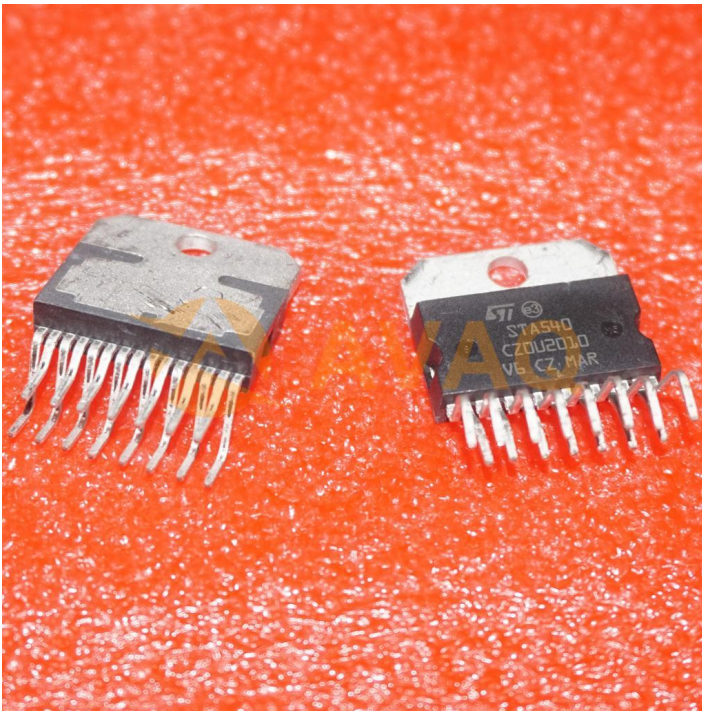
Output AC/DC short circuit

Soft short-circuit check at turn-on

Thermal cutoff/limiter to prevent chip from overheating

High inductive loads

ESD



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## Recommended For You

### STA339BWTR

STMicroelectronics, Inc

SSOP36

### STA559BW

STMicroelectronics, Inc

SSOP36

### STPA003OD-4WX

STMicroelectronics, Inc

144-LQFP

### STA309A13TR

STMicroelectronics, Inc

QFP64

### STA120D

STMicroelectronics, Inc

SOP28

### STA308

STMicroelectronics, Inc

QFP

### STA333W

STMicroelectronics, Inc

SSOP36

### STA516B13TR

STMicroelectronics, Inc

HSSOP36

### STABP01D

STMicroelectronics, Inc

SOP20

### STA333ML

STMicroelectronics, Inc

SSOP36

### STA333BW

STMicroelectronics, Inc

SSOP36

### STA321

STMicroelectronics, Inc

TQFP64

### STA304A

STMicroelectronics, Inc

QFP

### STA333IS

STMicroelectronics, Inc

CSP-30

### STABP01

STMicroelectronics, Inc

DIP