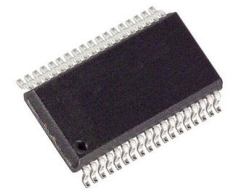


**Audio Amp Speaker 1-CH Mono/2-CH Stereo/4-CH Stereo 400W
Class-AB 36-Pin PowerSO Slug Up T/R**



Images are for reference only

Manufacturer:	STMicroelectronics, Inc
Package/Case:	HSSOP36
Product Type:	Amplifier ICs
Lifecycle:	Active

[Inquiry](#)

General Description

STA516B is a monolithic quad half-bridge stage in multipower BCD technology. The device can be used as dual bridge or reconfigured, by connecting pin CONFIG to pins VDD, as a single bridge with double-current capability or as a half bridge (binary mode) with half current capability.

The device is designed, particularly, to be the output stage of a stereo all digital high efficiency amplifier. It is capable of delivering 200 W + 200 W into 6 Ω loads with THD = 10% at VCC= 51 V or, in single BTL configuration, 400 W into a 3 Ω load with THD = 10% at VCC= 52 V. The input pins have a threshold proportional to the voltage on pin VL. The STA516B is aimed at audio amplifiers in hi-fi applications, such as home theatre systems, active speakers and docking stations. It comes in a 36 pin PowerSO package with exposed pad up (EPU).

Key Features

Low input/output pulse width distortion

200mΩ RdsON complementary DMOS output stage

CMOS compatible logic inputs

Thermal protection

Thermal warning output

Undervoltage protection

Recommended For You

STA540

STMicroelectronics, Inc

ZIP15

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

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