

Part Number : PAL012A ( = PA2032A )

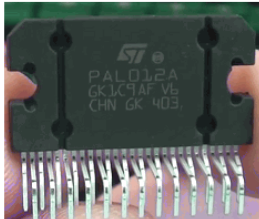
Function : PIONEER SPEAKER OUTPUT IC For DEH-1650 ABD AUDIO & POWER

Package : Flexiwatt 27 Pin Type

Manufacturers : Pioneer, STMicro

Image

**PAL012A**



#### Description

The PAL012A is an AB class audio power amplifier, packaged in Flexiwatt 25 and designed for high end car radio applications. Based on a fully complementary PNP/NPN configuration, the PAL012A allows a rail to rail output voltage swing with no need of bootstrap capacitors. The extremely reduced boundary components count allows very compact sets.

#### Features

1. High output power capability
2. Low distortion
3. Low output noise
4. Standby function
5. Mute function
6. Automute at min. supply voltage detection
7. Low external component count
8. Protections
  - Output short circuit to GND, to VS, across the load
  - Very inductive loads
  - Overrating chip temperature with soft thermal limiter
  - Load dump voltage
  - Fortuitous open GND
  - Reversed battery
  - ESD

**PAL012A**

| IC301<br>PAL012A |         |    |
|------------------|---------|----|
| 1                | TAB     | 1  |
| 2                | OFF.DET | 2  |
| 3                | P-GND2  | 3  |
| 4                | RL-     | 4  |
| 5                | STBY    | 5  |
| 6                | RL+     | 6  |
| 7                | VCC     | 7  |
| 8                | FL-     | 8  |
| 9                | P-GND1  | 9  |
| 10               | FL+     | 10 |
| 11               | SVR     | 11 |
| 12               | FLIn    | 12 |
| 13               | RLIn    | 13 |
| 14               | AGND    | 14 |
| 15               | RRIn    | 15 |
| 16               | FRIn    | 16 |
| 17               | AC-GND  | 17 |
| 18               | FR+     | 18 |
| 19               | P-GND3  | 19 |
| 20               | FR-     | 20 |
| 21               | VCC     | 21 |
| 22               | RR+     | 22 |
| 23               | MUTE    | 23 |
| 24               | RR-     | 24 |
| 25               | P-GND4  | 25 |
| 26               | H-SW    | 26 |
| 27               | TAB2    | 27 |