

1237 Relay Protection Circuit



Overview

UTC UPC1237 is a semiconductor integrated circuit designed for protecting stereo power amplifiers and loudspeakers. FEATURES * Wide supply voltage range of 25V~60V. To prevent the damage, it is necessary to detect the Output Offset DC level and to disconnect the speaker from the power amplifier by breaking off a relay if the detected DC level is shifted beyond a threshold level. uPC1237 has a function to detect both the positive and the negative Output. Description: The uPC1237 operates with a single power supply, with an operating voltage range of 25V to 60V, typically used directly as a positive power source (+Vcc) for amplifiers. Almost any Sony amplifier starting from the lower range and right up to the higher-end ES series are using this chip. (Vcc = 25 to 60 V) @ Contain a relay driver. The voltage of the relay coil is DC 24v, because the limit current of pin ⑥ relay driving end is 80mA.



Article Content

uPC1237 Amplifier/Speaker Protection Module

Using uPC1237 for over current protection allows the designer to drop the SOA limiting elements in the power amplifier. This will save space on the PCB, lower the cost of the project and

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DESCRIPTION UTC UPC1237 is a semiconductor integrated circuit designed for protecting stereo power amplifiers and loudspeakers.

uPC1237 speaker protection circuit diagram

Directly connecting pin ③ to the ground is the automatic reset working mode, that is, after the protection circuit operates and the relay disconnects the speaker, if the power amplifier circuit

Overload detection circuit for UPC1237 | Page 4 | diyAudio

A sophisticated and well-designed protection system can reduce the cost of the output transistors, the size of the heat sinks. In modern models there are many output transistors and there

upc1237 BIPOLAR ANALOG INTEGRATED CIRCUIT

PROTECTOR IC FOR STEREO POWER AMPLIFIER DESCRIPTION uPC1237 is a monolithic integrated circuit designed for protecting stereo power amplifiers and loudspeakers.

UPC1237 PROTECTOR Datasheet | Unisonic Technologies

UTC UPC1237 is a semiconductor integrated circuit designed for protecting stereo power amplifiers and loudspeakers. FEATURES * Wide supply voltage range of 25V~60V * Contain a relay

Upc1237 12v relay

Use it as intended, so 24V minimum. As the suggested schematic clearly says: In fact, this schematic uses TWO 12V relays, connected in series. Just curious: do you have a 12V powered

Datasheets

If the IC detects the abnormal condition such as the larger output offset level or the overload, the IC can make the relay broken OFF. And then, two functions can be selected after the condition returns to

UPC1237 Datasheet (PDF)

Unisonic Technologies is a Taiwanese semiconductor company that specializes in the design, manufacture, and sales of power management and analog integrated

uPC1237 speaker protection circuit diagram

Once the positive or negative offset voltage of the output terminal of the power amplifier exceeds the set threshold, the internal circuit of uPC1237 releases the relay and disconnects the

uPC1237 speaker protection schematic | Next Electronics

This internal circuit controls the relay to disconnect the amplifier output from the speakers, preventing any impact noise during the transition when the power output is at zero level.

UPC1237 Datasheet PDF

UTC UPC1237 is a semiconductor integrated circuit designed for protecting stereo power amplifiers and loudspeakers. FEATURES. * Wide supply voltage range of 25V~60V. * Contain a relay driver. (Max.

Upc1237 PDF | PDF | Amplifier | Relay

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Speaker protection circuit diagram based on uPC1237 design

The following is the circuit diagram of [speaker protection circuit diagram based on uPC1237 design] uPC1237 is powered by a single power supply, and the operating voltage range is

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UTC UPC1237 is a semiconductor integrated circuit designed for protecting stereo power amplifiers and loudspeakers. Wide supply voltage range of 25V~60V. Contain a relay driver. (Max. I₆=80mA) Work

Contact Us

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