NEC
ELECTRON DEVICE

BIPOLAR ANALOG INTEGRATED CIRCUIT

μPC1237

PROTECTOR IC FOR STEREO POWER AMPLIFIER

DESCRIPTION

μPC1237 is a monolithic integrated circuit designed for protecting stereo power amplifiers and loudspeakers.

FEATURES

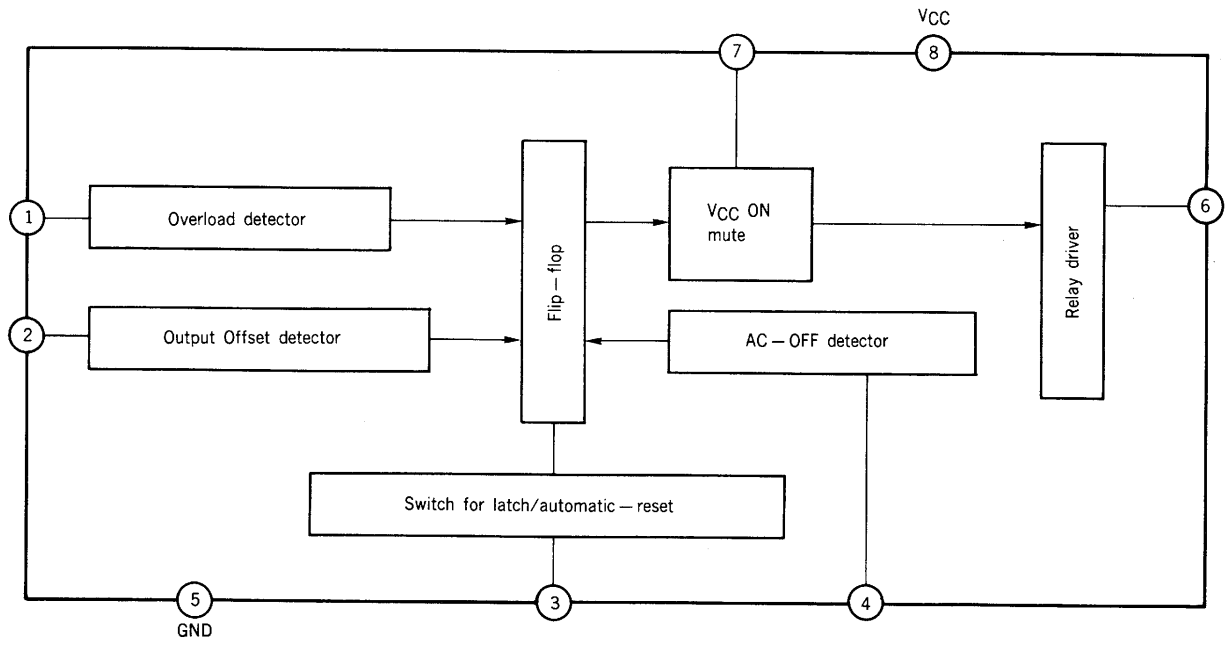
- Work stably within a wide power supply voltage range. (V_{CC} = 25 to 60 V)
- Contain a relay driver. (Max. I_6 = 80 mA)
- Work as either latching function or automatic resetting function by using pin 3. (In both overload detection and output offset detection, either function can be selected.)
- Need only single power supply.
- Both positive and negative output offset can be detected through the same pin. (Output offset detection through pin 2)
- AC voltage can be detected. (For AC-power-OFF mute through pin 4)
- The time delay from amplifier power ON to relay ON can be freely set by selecting external components. (For AC-power-ON mute through pin 7)
- The moment that amplifier-power is turned off, it can make relay broken OFF and then loudspeaker disconnected from amplifier to prevent a shock off noise.

ORDERING INFORMATION

PART NUMBER	PACKAGE	QUALITY GRADE
μPC1237HA	8 PIN PLASTIC SLIM SIP	Standard

Please refer to "Quality grade on NEC Semiconductor Devices" (Document number IEI-1209) published by NEC Corporation to know the specification of quality grade on the devices and its recommended applications.

BLOCK DIAGRAM



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