

HA13173AH

Multiple Voltage Regulator for Car Audio

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Description

The HA13173AH is a multiple voltage regulator for car audio system. This IC has 5.0 V output for a microcontroller, 3.3 V output for a Digital Signal Processor, 8.0 V output for CD driver, 8.4 V output for audio control, 8.4 V output for illuminations, and high side switch output for external output.

The HA13173AH also has FREG that is possible to control external PNP transistor. It is adjustable output voltage by changing an external resistor.

Functions

- Standby current is 100 μ A max.
- The Vdd output for microcontroller has backup function, by independent power supply line.
- Low saturation output (PNP output) used for audio output.
- Output current limit circuit to avoid device destruction caused by shorted output, etc.
- High surge input protector against VB and VBUP.
- Built in a thermal shutdown circuit to prevent against the thermal destruction.
- The package is PRSS0015DA-C (SP-15TGV).

EOL announced Product

Pin Description

Pin No.	Pin Name	Specification	Protection			
			Normal	TSD ON	VB = 24 V	VB = 50 V
1	GND	Ground	—	—	—	—
2	FREG_B	External transistor bias operation	Available	Available	Off	Off
3	FREG_F	FREG feed back terminal	Available	Available	Off	Off
4	ILM OUT	8.4 V output for ILM/500 mA max	Available	Off	Off	Off
5	CTL4	FREG control terminal	Available	Available	Not available	Not available
6	CD OUT	8.0 V output for CD/1.3 A max	Available	Off	Off	Off
7	DSP OUT	3.3 V output for DSP/250 mA max	Available	Off	Off	Off
8	VB	Battery	—	—	—	—
9	CTL3	ILM control terminal	Available	Not available	Not available	Not available
10	AUDIO OUT	8.4 V output for AUDIO/500 mA max	Available	Off	Off	Off
11	CTL1	DSP, CD, AUDIO control terminal	Available	Not available	Not available	Not available
12	EXT OUT	High side output/600 mA max	Available	Off	Off	Off
13	CTL2	EXT control terminal	Available	Not available	Not available	Not available
14	VDD OUT	5.0 V output for microcontroller	On	On	On	Off
15	VBUP	Back up	—	—	—	—

Evaluation Circuit

