
Errata: CS4297A Rev. H

(Reference CS4297A_DS318PP6 Data Sheet dated March '06)

1. The CS4297A requires a minimum SYNC pulse width of 1.13 μ s in the absence of BIT_CLK for a warm reset to occur. AC '97 version 2.1 requires SYNC to be asserted for a minimum of only 1.0 μ s.

Note: This requirement refers to the behavior of SYNC during warm reset only. During normal operation, SYNC is asserted for the entire period of slot 0 (the tag phase), which is 16 cycles of BIT_CLK.

2. SDATA_IN does not meet the AC '97 specification of driving a 47.5 pF capacitive load within the rise time constraints of $2 \text{ ns} \leq T_{\text{rise}} \leq 6 \text{ ns}$. However, even at maximum capacitive loading, the codec provides sufficient SDATA_IN data setup margin to prevent any functional issues.

Workaround Solution - Minimize SDATA_IN trace length during board layout, and keep the total capacitive loading to 22 pF or less.

3. BPCFG (Pin 31) does not meet the JEDEC latch-up specification of $\pm 100 \text{ mA}$ at 70 °C. The negative injection failing point is 50 mA at 70 °C.

Workaround Solution - None required. Under normal operation, the BPCFG pin is not connected to external circuitry. If PC_BEEP bypass is disabled, this pin is tied to analog ground.

Contacting Cirrus Logic Support

For all product questions and inquiries, contact a Cirrus Logic Sales Representative.

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