

## **TPS68000 Errata**

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### **1 Parts Affected**

- TPS68000 - Device package marking: All devices with date code 68T or earlier.

### **2 Startup Frequency Sweep Correction**

#### **2.1 Symptoms**

- **Cause:** Device does not operate as specified during startup under certain application conditions.
- **Corrective Action:** Change minimum sweep frequency to 50% of nominal operating frequency.

#### **2.2 Description**

During startup, the device is designed to sweep from double the programmed operating frequency to approximately half of the programmed operating frequency if the sweep is not stopped by the current or voltage regulator starting to regulate. The current devices will sweep down to approximately 9 kHz regardless of the programmed operating frequency. This may cause problems in certain applications during the error condition when the lamp does not start and the voltage at the lamp does not reach the regulation threshold.

### **3 Voltage to Current Regulation Transition Correction**

#### **3.1 Symptoms**

- **Cause:** Device does not operate as specified during transition from voltage to current regulation under certain application conditions.
- **Corrective Action:** Change logic to inhibit the undefined state during the transition.

#### **3.2 Description**

When the device entered voltage regulation at certain input voltage and duty cycle combinations, caused by an error condition in the application and the error condition disappears before the error timer shuts down the device, the device may enter into an undefined state where neither current nor voltage is regulated. The protection comparators still work in this condition and will shut down the device if voltage or current exceed the programmed limits.

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