

ABSTRACT

**SYSTEM AND METHOD FOR LOW POWER START-UP CIRCUIT FOR
BANDGAP VOLTAGE REFERENCE**

The present invention relates to a start-up circuit (100, 300, 300') with lower current requirements than a conventional start-up circuit. An embodiment of the present invention achieves lower current requirements by reducing the current of the start-up circuit (100, 300, 300') to approximately zero when the bandgap circuit (102, 302, 302') reaches a predetermined value. For example, the start-up circuit (100, 300, 300'), according to an embodiment of the present invention, may peak at a current of 3.3 micro Amps in order to ensure that the bandgap circuit (102, 302, 302') reaches the predetermined voltage. Thereafter, the current for the start-up circuit (100, 300, 300') may be reduced to approximately zero once the bandgap circuit (102, 302, 302') no longer requires the start-up circuit (100, 300, 300').

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