## Soft Transition between Constant Current and Constant Voltage

## Description

- Provides a regulated output power with a regulated transition from constant voltage to constant current that does not exceed the maximum power capability of the power supply
- Includes an external feedback circuit with a voltage regulation circuit, a transition region circuit and a current regulation circuit

## Benefits

- ▶ Reduces component size
- Reduces the peak current of the primary in the transformer
- ► Could be used in: Battery charger applications

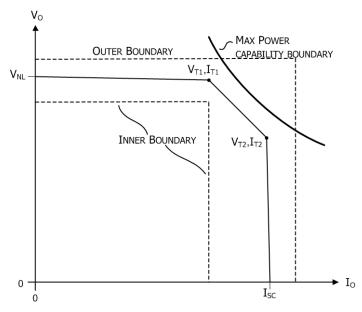


Figure 1. Voltage and current graph illustrating the boundaries of output voltage and output current for a power supply



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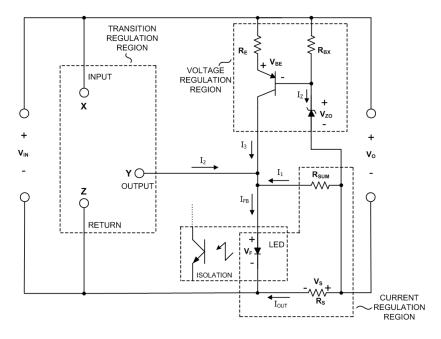


Figure 2. Diagram of the current regulation circuit and voltage regulation circuit

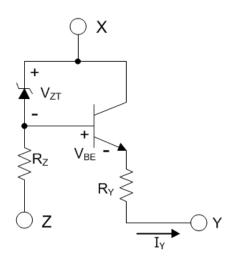


Figure 3. One example of a transition region regulation circuit

