Leading Edge and Trailing Edge Dimmer Detection and Bleeder Activation

- **Description**
  - Detects both leading and trailing edge dimmers when the input voltage is greater than a threshold
  - A timing circuit avoids false edge detection and activates the bleeder after a threshold time delay

- **Benefits**
  - Bleeder maintains input current above the holding threshold for smooth dim
  - Multiple ways to implement the idea with simple electronic devices (Figure 2 illustrates an example circuit)
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**Benefits**

- Simplifies application by detecting both leading edge and trailing edge dimming
- Improves function by reducing false response
- Good performance of efficiency and dimming ratio
- Saves extra activation source because the supply voltage for bleeder activation is provided by dimmer detection

*Figure 2. Detailed schematic of edge detection and bleeder activation circuit*