

# Bleeder with Thermal Protection

## ■ Description

- ▶ Temporary increase in bleeder current and temperature during regulatory test of LED driver may cause a false failure
- ▶ A thermal protection circuit is added to the bleeder circuit of LED driver
- ▶ Excessive current and temperature rise is prevented by the thermal protection circuit detecting the temperature rise above a threshold and disconnecting the bleeder circuit until the temperature drops below the threshold with some margin

## ■ Benefits

- ▶ Could easily with few low cost components be added inside the LED driver package
- ▶ Prevents a permanent failure during a temporary current and temperature rise of bleeder
- ▶ Prevents a false failure during regulatory or safety testing of the LED driver

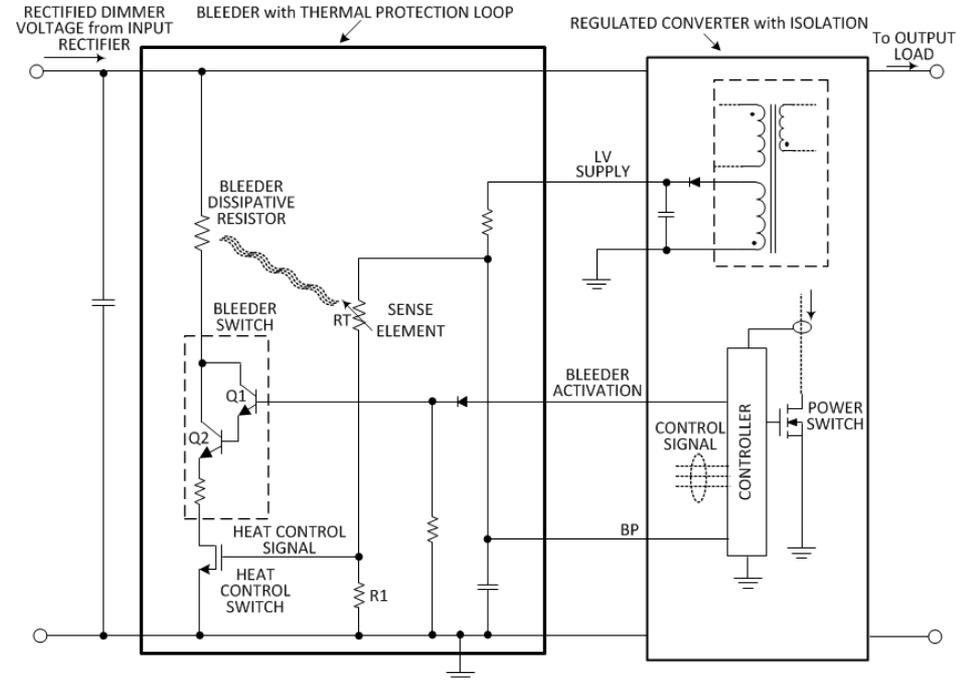


Figure 1. Schematics of bleeder with thermal protection circuit