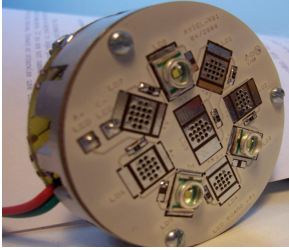
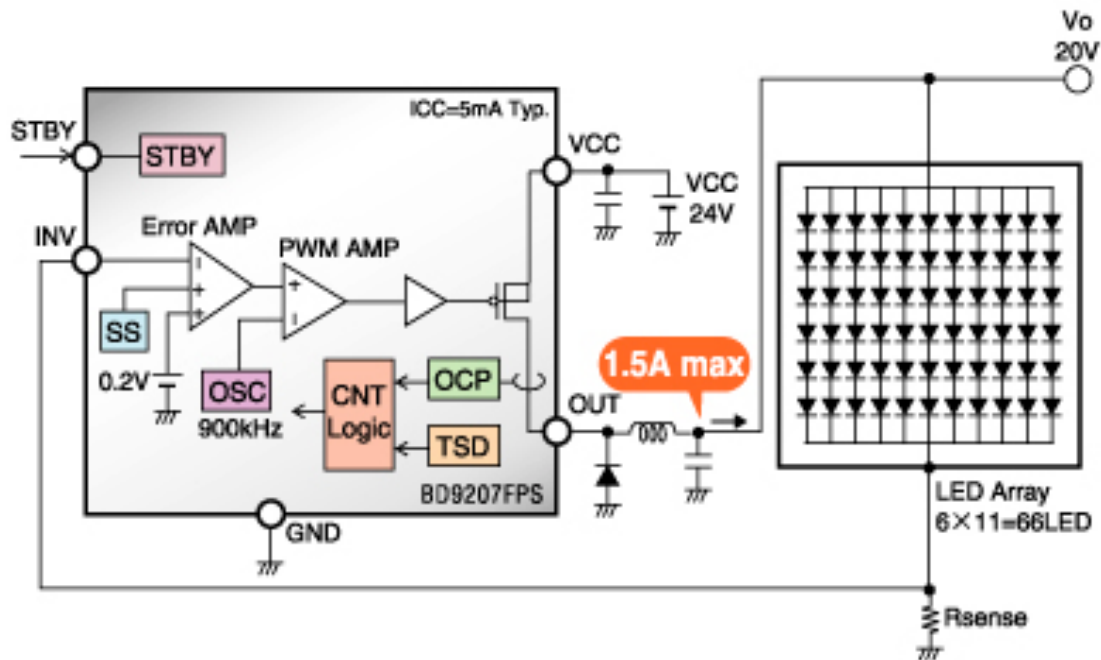


## **BD9207FPS Constant Current LED Driver Lighting Application (Example)**

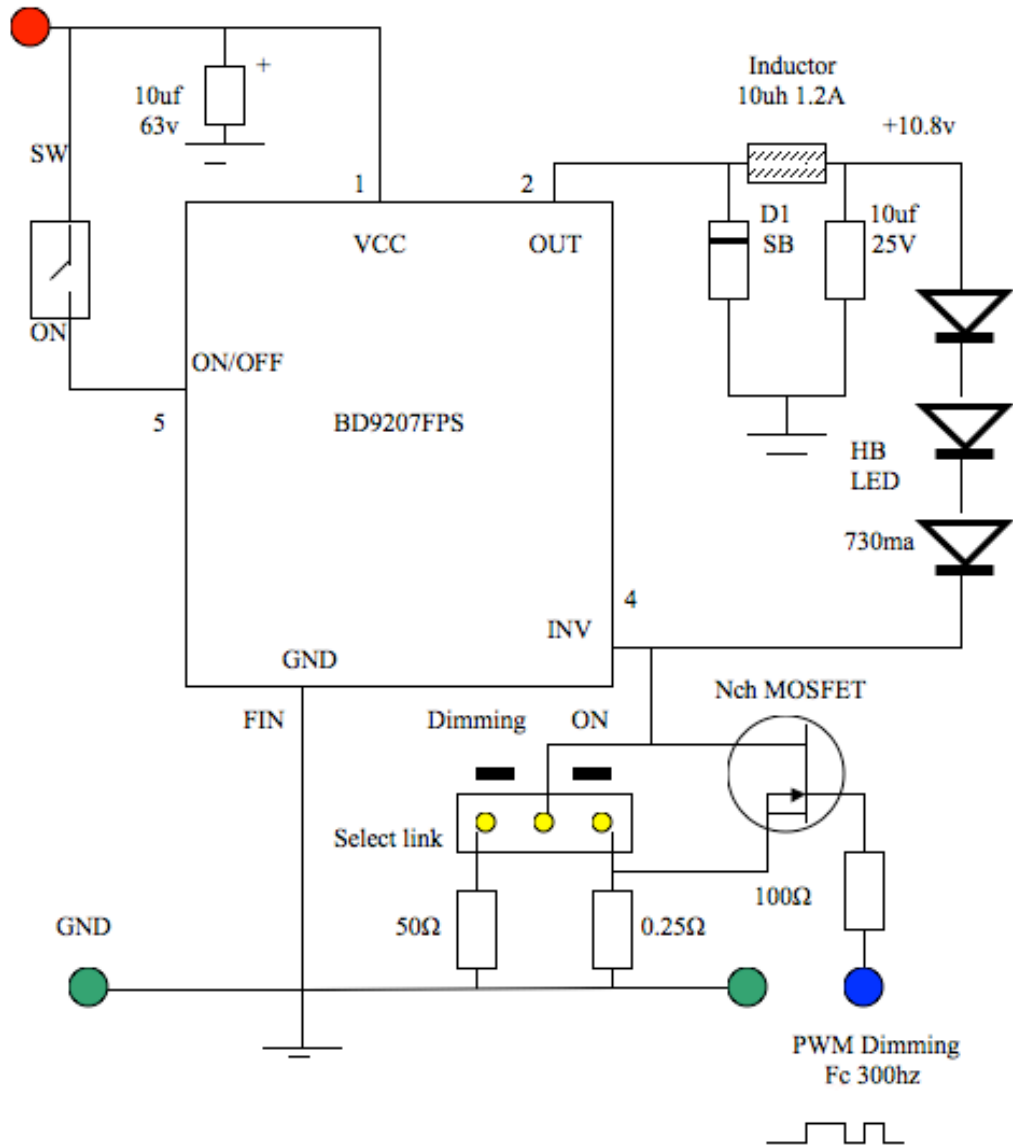


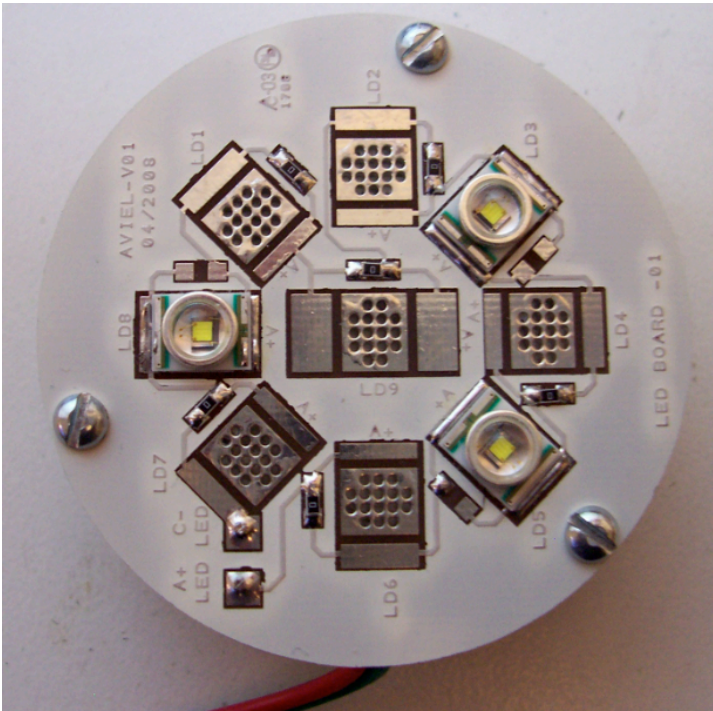
### **Key Features:**

- Input Voltage: 8V-35V
- Driver current up to: 1.5A max.
- FWM switching frequency: 900KHz
- Current Sense REF detection voltage: 0.2V
- Standby mode
- External PWM brightness control ( $f_c=300\text{Hz}$ )
- Built-in protection circuits: soft start, overcurrent control, thermal shutdown
- Compact TO-252S-5 package
- Few external parts required
- High efficiency: 93% +



Input voltage: +12 to +35VDC





## **Test Conditions and Measurement Results**

### **Test Conditions:**

- Input Voltage: 12VDC-35VDC
- LED Driver Current: 730mA (max.)
- Operating Frequency: 900KHz
- LED Forward Voltage: 3.5V
- Vref: 0.2V

### **Measurement Results:**

- Input Voltage: 28VDC
- Input Current: 303mA
- LED Current: 730mA
- Output Voltage: 10.8V
- Pin=28V x 303mA=8.484W
- Pout=10.8V x 730mA=7.884W

Efficiency:  $(\text{Pin}/\text{Pout}) \times 100\% = 92.9\%$