

SJD-LED-1500



Features:

- Dc-Dc Step-Down Converter
- Constant Current
- High Power LED Driver
- Wide Input Voltage Range
- High Efficiency (Up to 95%)
- Remote Control Function :
- Dimming Function :
 - PWM / Analog Voltage control (0~100%)
- 24 Pin Dip With Industry Standard Package And Pinout



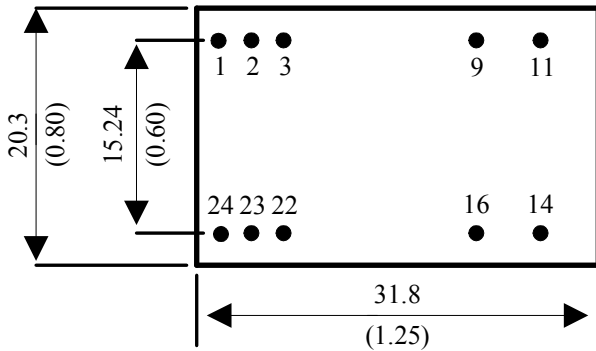
Specifications: At nominal Input, rated output current and 25°C

- | | |
|-------------------------------|---|
| ➤ DC Input Voltage | 5-33V(24V Recommended) |
| ➤ Output Voltage | 2-30V |
| ➤ Output Current | 1500mA (±5%Accuracy) |
| ➤ Efficiency at Full Load | 95% max. (See Note 1) |
| ➤ Operating Frequency | 260KHz |
| ➤ Short Circuit Protection | Regulated at the rated model current |
| ➤ Output Open Protection | No Load |
| ➤ Capacitive Load | 100uF max. |
| ➤ Output Ripple and Noise | 300mVp-p max. |
| ➤ Case Material | Nickel-Coated Copper with Non-Conductive Base |
| ➤ Potting Material | Epoxy (Flammability UL94V-0) |
| ➤ Dimensions | 1.25×0.8×0.43 inches (31.8 × 20.3 × 11mm) |
| ➤ Operating Temperature Range | -40°C ~ +70°C (Free air convection) |
| ➤ Storage Temperature Range | -40°C ~ +125°C |
| ➤ Remote ON/OFF | DC ON Open or $0V < V_R < 0.6V$ |
| (Leave open if not used) | DC OFF $0.6V < V_R < 5V$ (1mA max.) |
| ➤ Dimming Control | 200Hz PWM Frequency (10%~90%) |
| (Leave open if not used) | Analog Voltage (0%~100%) |
| | 0~4.5V (1mA max.) |
| ➤ Relative Humidity | 95% |

HIGH POWER LED DRIVER

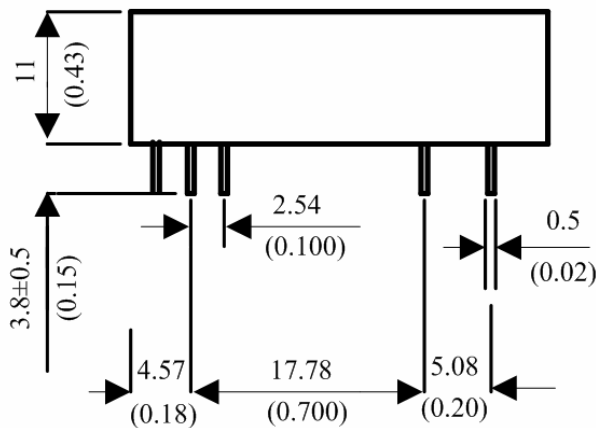
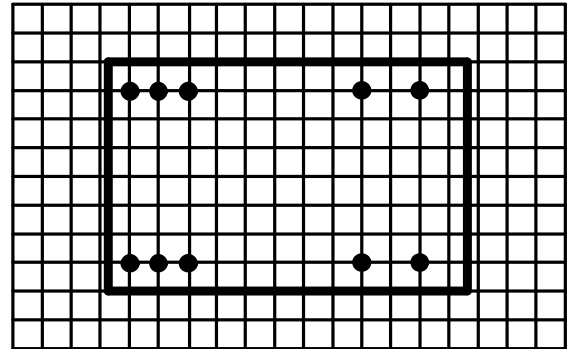
Mechanical Specifications:

Bottom View



Recommended Pin Patterns

Bottom View (2.54mm / 0.1inch grids)



Pin Connections:

Pin	Connection
1	Remote Control On/Off
2 & 3	-Vin
9	NC
11	NC
14	LED+
16	LED -
22 & 23	+Vin
24	DIM

NC : No Connections

Tolerance	Millimeters	Inches
	.X ± 0.25	.XX ±0.01
	.XX ±0.25	.XXX±0.01
Pin	±0.05	±0.002

Note:

1. All specifications are typical at $T_a=25^{\circ}\text{C}$, nominal input voltage, resistive load and current unless otherwise noted.
2. Specifications subject to change without notice.

HIGH POWER LED DRIVER

Application Circuits:

