4-channel LED constant current driver UCS2904B

GENERAL DESCRIPTION

The UCS2904B is a 4-channel LED display driver / controller with a built-in MCU digital interface, data latches and LED high voltage driving functions. It features superior performances and reliable functions. Under the control of the external MCU, it performs independent grayscale control through data-cascading transfer for driving large outdoor colour dot-matrix LED panels.

FEATURES

1. single line data tronsmission（return to zero code）
2. shaping transmit specific technology, Cascade number of lamps and lanterns is not restricted
3. cascading ability enhancement technology, Any 2 lanterns spacing can be up to 10 meters
4. Data transfer rate of 800 k/s, Images of not less than 512 points can be realized when the refresh rate of 25 frames per second,
5. 4 PWM output port, easy to control 4 color LED products, Commonly used in RGBW color LED control
5. RGBW output port PWM control can be achieved 256 grey level each port adjustment, port scanning frequency of 1.8 KHz/s
6. chip VDD built-in 5 v voltage regulator tube, output port Withstand Voltage is greater than 24 V
7. adopt the preset 17 mA/channel constant current mode. High precision of constant current , differences of current between Channel is less than ±1.5%,the differences of current between Chip is less than ±3%
8. when power up ,IC self-inspection then Light connection on the pin B lamp
9. SA-I Anti-interference patent technology for single line data tronsmission
10. Industrial design, stable and reliable

Application:

Point light source   full color module   full color light bar   LED decorate..