



High Brightness LED Rails

LT-283205



Overview

Spectrah LT-283205 series are high brightness LED rails. This product line provides a simpler and less costly option of replacing lamps and power source in an existing LCD panel rather than re-designing the whole panel system. Working with Spectrah dedicated LED driving board LED-261 series, LT-283205 is able to upgrade NEC 10.4" CCFL panels to LED backlight with high brightness, high dimming ratio, long life, and low power consumption.

Features

- High Brightness LED
- Luminance 800-1200 nits
- NEC 10.4" panel backlight unit compatible
- Long life time
- Low power consumption

Support Panel

- NEC-NL6448BC33-59
- NEC-NL8060BC26-27
- NEC-NL6448AC33-18
- NEC-NL8060BC26-30C
- NEC-NL6448BC33-63C
- NEC-NL6448BC33-64C
- NEC-NL6448BC33-63D

Operating Conditions

| Rating | Symbol | Value | Units |
|------------------------------|-----------|-------------|-------|
| Componet Surface Temperature | T_s | - 40 ~ + 85 | °C |
| Storage Temperature | T_{stg} | - 40 ~ +120 | °C |

Mechanical Characteristics

| | L | W | H |
|-----------|----------|---------|----------|
| Dimension | 230 mm | 11.2 mm | 12.25 mm |
| Weight | MAX. 10g | | |

Electrical Characteristics

Unless otherwise noted $V_{in} = 12$ Volts DC and $T_a = 25^\circ\text{C}$

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|---------------------|--------|------|------|------|------|
| Forward Current | I_F | - | 140 | - | mA |
| Number of Strings | - | - | 4 | - | - |
| LED Forward Voltage | V_F | - | 3 | 3.2 | V |
| String Voltage | V_S | - | 14 | 14.2 | V |

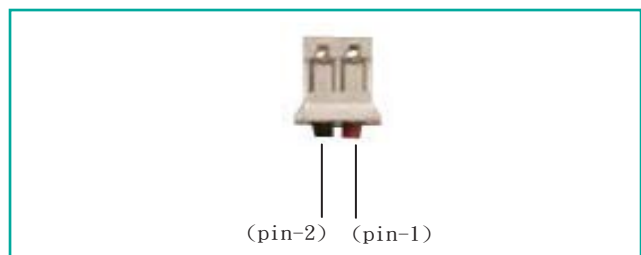
Connector

| Pin No. | Brand | Symbol | Description |
|---------|------------|---------|-------------|
| 1 | JST-S2B-PH | Anode | Red |
| 2 | JST-S2B-PH | Cathode | Black |

Peripheral

- LED Backlight Driver : LED-261560

Pin Number



Spectrah Dynamics, Inc.

Tel: 886-2-86472026 | Fax: 886-2-86472201 | E-mail: spec_info@spectrah.com
 Add: 5F-2, No. 188, Sec #3, Ta-tung Road, Hsi-Chi, Taipei Hsien 221, Taiwan.

www.spectrah.com