

DATA SHEET



DEVICE NUMBER :FL-5050RGB300N

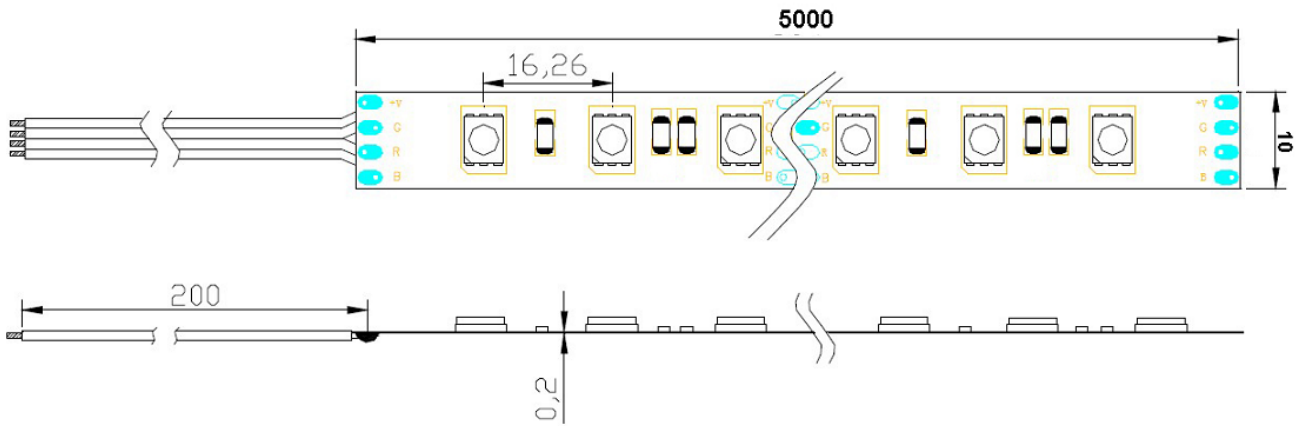
- **Features:**

- 1 . 5000MMx10MM(300-LED) RGB Tri-color LED FLEX RIBBON (NON-WATERPROOF)
2. PRINTED CIRCUIT BOARD THICKNESS: 0.2MM
3. WORKING VOLTAGE: 12V DC.
4. WORKING CURRENT: 6 A
5. LED VIEW ANGLE(2 θ 1/2):100°
6. PACKAGE: 5meters/REEL

- **Applications:**

1. Cove lighting and cabinet lighting
2. Backlighting or edge lighting for light box or sign box
3. DIY lighting for indoor use
4. Path or contour marking
5. Decorative lighting for festivals, events, shows and exhibitions
6. Stairway and walkway lighting

● **Package dimensions(mm):**



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.5 mm unless otherwise specified.

● **Absolute maximum ratings (TA=25°C)**

| Parameter | Symbol | Absolute Maximum Rating | Unit |
|-------------------------|--------|-------------------------|------|
| Forward Current | I_F | 6 | A |
| Power Dissipation | PD | 72 | W |
| Electrostatic discharge | ESD | 800 | V |
| Operating Temperature | Topr | -25 \sim +60 | °C |
| Storage Temperature | Tstg | -40 \sim +80 | °C |

*1Proper current derating must be followed to keep LED junction temperature (T_j) below the maximum

● **Electrical & Optical Characteristics (T_j=25°C)**

| Parameter | | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---------------------------|---|----------------------|-------------------------|------|------|------|------|
| Forward Voltage DC | | V _F | I _F = 6000mA | - | 12 | - | V |
| Dominant Wavelength | R | λ _D | I _F = 6000mA | 620 | 626 | - | nm |
| | G | λ _D | I _F = 6000mA | 515 | 520 | - | nm |
| | B | λ _D | I _F = 6000mA | 473 | 476 | - | nm |
| Luminous flux | R | φ _V | I _F = 6000mA | 650 | 850 | - | lm |
| | G | φ _V | I _F = 6000mA | 750 | 950 | - | lm |
| | B | φ _V | I _F = 6000mA | 300 | 400 | - | lm |
| Recommend Forward Current | | I _F (rec) | V _F = 12V | - | 6 | - | A |

● **Package Method : (unit:mm)**

