

**FLEXSTRIP LIGHT****BVM-SFPC5 LN SERIES****■ DESCRIPTION**

- Flexstrip light is made of high brightness SMD LEDs mounted on flexible printed circuit (FPC).
- Bright View also provides controller for dimmer and programmable color change.

**■ FEATURES**

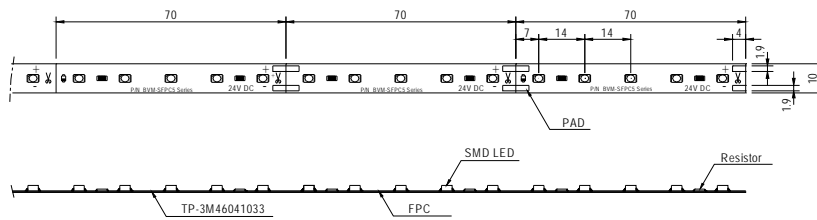
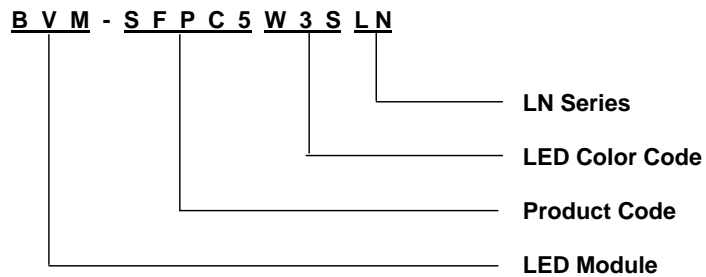
- Number of SMD LEDs : 300 pcs of ultra bright SMD LEDs
- Product size (LxWXH) : 4200mm x 10mm x 2.6mm
- Easy installation with the back adhesive-tape
- Products are packed into reel and can be cut at mark place into shorter units
- Shortest unit is 70mm with 5 LEDs; 60 shortest units per reel.
- Drive: 24VDC
- Low power consumption and high optical intensity
- Lead (Pb) free, and RoHS compliant

**■ APPLICATIONS**

- Amusement park & theater mood lighting
- Architectural decorative lighting
- Backlighting for signage letters
- Auditorium walkway lighting
- Stairway accent lighting
- Hallway lighting

**■ PRODUCT DIMENSION**

Unit : mm  
Tolerance :  $\pm 0.5\text{mm}$

**■ PART NUMBERING SYSTEM**

**■ ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C**

PARAMETER	BVM-SFPC5		
	B3SLN	G3SLN	W3SLN
Operating Voltage (max.)	25V	25V	25V
Electrostatic Discharge (Contact Mode)	±2000V		
Power Dissipation / Unit	0.63W		
Power Dissipation / Reel / 60Units	37.5W		
Operating Temperature Range	-30 °C to +50 °C		
Storage Temperature Range	-30 °C to +85 °C		

**■ TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS AT 24VDC Ta = 25°C**

SYMBOL	PARAMETER	B3SLN	G3SLN	W3SLN	Unit
	Color	Blue	Green	White	*
$\lambda_p$	Peak Emission Wavelength	465	520	*	nm
$\lambda_d$	Dominant Wavelength	470	525	*	nm
$2\theta_{1/2}$	LED Viewing Angle	110	110	110	deg
$I_U$	Operating Current / Unit	20	20	20	mA
$I_R$	Operating Current / Reel	1.2	1.2	1.2	A
$\Phi_U$	Luminous Flux / Unit	2.5	7.0	16.5	lm
$\Phi_R$	Luminous Flux / Reel	150	420	990	lm

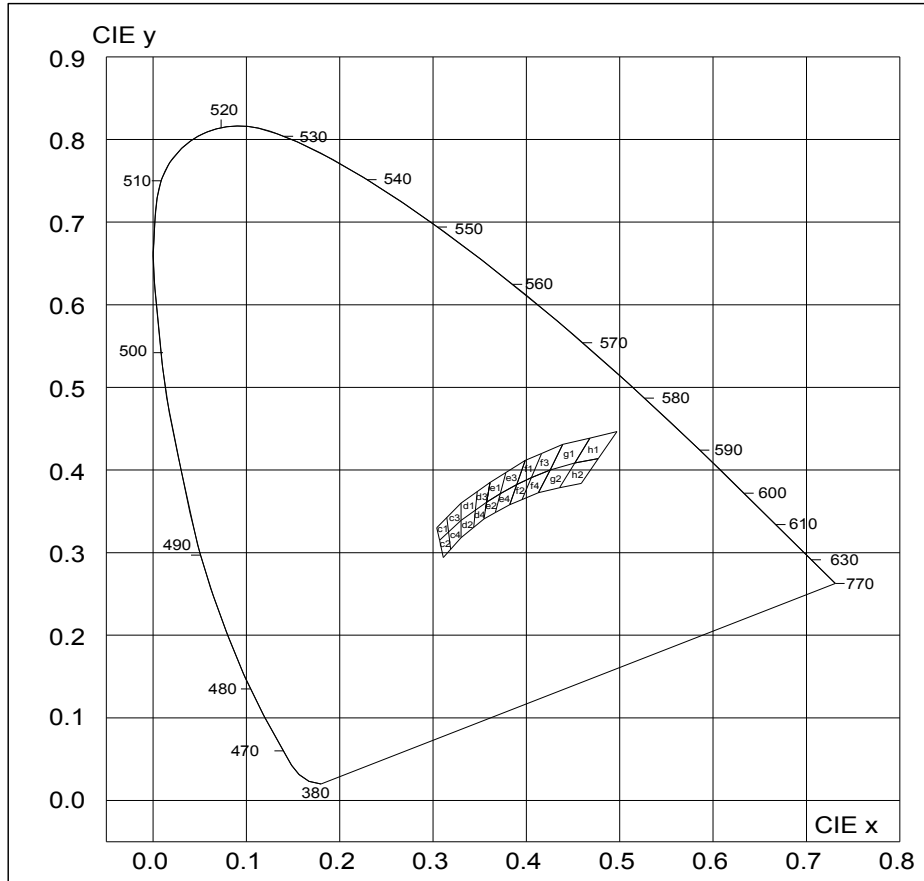
\* White products are provided with different color temperature bins. (see following paragraph)

**Note**

1. Luminous flux measurement tolerance : +/- 10%
2. View angle of the LED is the off-axis angle from the optical center line to the 1/2 luminous intensity of the peak value.

**■ BIN GRADE LIMITS CHROMATICITY COORDINATES FOR BVM-SFPC5W3SLN**

Bin Code	Color Temperature Rank (Kelvin)	Chromaticity Coordinates				
c1	6300~7000	x	0.307	0.304	0.3147	0.3165
		y	0.315	0.33	0.3423	0.325
c2		x	0.311	0.307	0.3165	0.3188
		y	0.294	0.315	0.325	0.3038
c3	5500~6300	x	0.3165	0.3147	0.33	0.33
		y	0.325	0.3423	0.36	0.339
c4		x	0.3188	0.3165	0.33	0.33
		y	0.3038	0.325	0.339	0.318
d1	5000~5500	x	0.33	0.33	0.3473	0.3453
		y	0.339	0.36	0.3739	0.3514
d2		x	0.33	0.33	0.3453	0.3436
		y	0.318	0.339	0.3514	0.3307
d3	4500~5000	x	0.3453	0.3473	0.361	0.3575
		y	0.3514	0.3739	0.385	0.3612
d4		x	0.3436	0.3453	0.3575	0.3545
		y	0.3307	0.3514	0.3612	0.3408
f1	3800~3500	x	0.3897	0.3988	0.4162	0.4053
		y	0.3823	0.4116	0.42	0.3907
f2		x	0.3822	0.3897	0.4053	0.3954
		y	0.358	0.3823	0.3907	0.3642
f3	3200~3500	x	0.4053	0.4162	0.439	0.4255
		y	0.3907	0.42	0.431	0.4
f4		x	0.3954	0.4053	0.4255	0.4129
		y	0.3642	0.3907	0.4	0.3725
g1	2800~3200	x	0.4255	0.439	0.468	0.4519
		y	0.4	0.431	0.4385	0.4086
g2		x	0.4129	0.4255	0.4519	0.4355
		y	0.3725	0.4	0.4086	0.3785
h1	2500~2800	x	0.4519	0.468	0.497	0.477
		y	0.4086	0.4385	0.4466	0.4137
h2		x	0.4355	0.4519	0.477	0.4588
		y	0.3785	0.4086	0.4137	0.3838

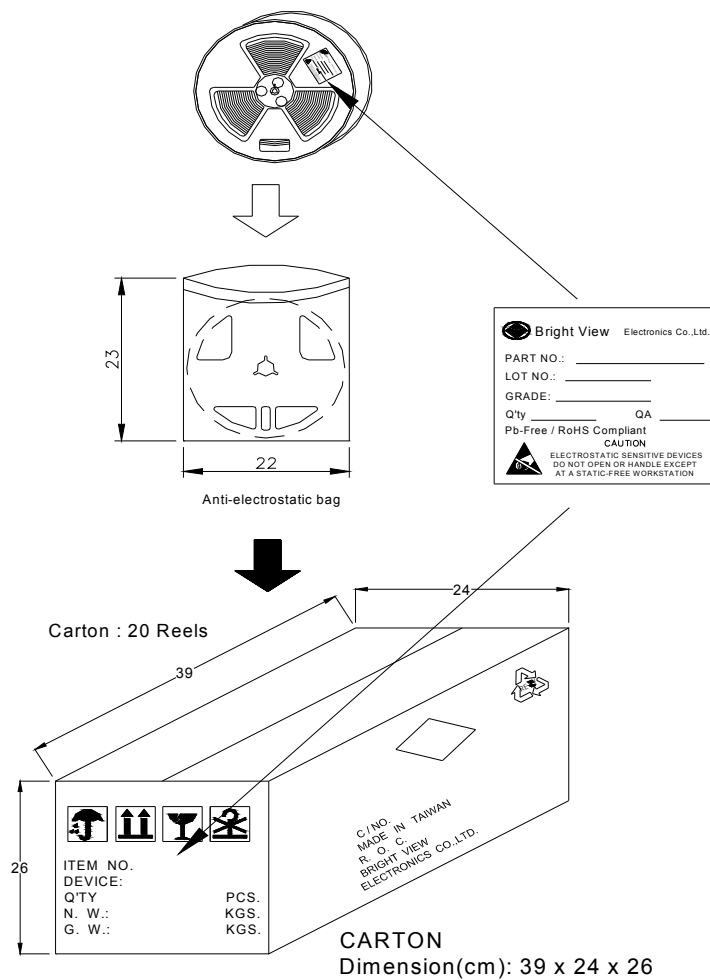
**■ CHROMATICITY DIAGRAM CIE 1931**

\*The chromaticity coordinates (x,y) of the SMD LEDs are in accordance with CIE 1931 chromaticity diagram.

\*The color temperature values used are based on the traditional incandescence lighting standard which cannot be exact applicable to LED lighting. It must be used only for reference purpose.

\*Measurement uncertainty of color coordinates:  $\pm 0.02$

**Note:** Products of different CIE bins may not use the same materials and thus may have minor differences in characteristic and business terms

**■ PACKING**



■ **CAUTIONS**

**1. Over voltage**

- A. Drive the product over the specified voltage rating (25VDC) per unit or per reel will damage the product.
- B. The product should not be used in reverse polarity.
- C. It is recommended to use a power supply with overload (over-voltage, short circuit and overheat) protection.

**2. Hand soldering**

- A. It is recommended to use a tip temperature of 280 °C for less than 3 seconds (one times) with a soldering iron capacity of 30W, if hand soldering of the connecting wire is required.
- B. Be careful of the contaminations of hand soldering.

**3. Storage & Handling**

- A. Open the anti-electrostatic bag only a short time before use.
- B. LED is encapsulated with elastic resin and will be damaged with a external force applied on the top surface of the LED.
- C. The product should be storage in an environment with the relative humidity less than 90% RH (@30 degree C or less).
- D. During installation, excess mechanical stress will damage the product. The minimum bending radius of curvature is 5000mm. The maximum twist angle is 1 degree.
- E. The product is not waterproof. Excess moisture may also damage the product.