

#### **FLEXSTRIP LIGHT**

#### **■** DESCRIPTION

- Flexstrip light is made of white top emission SMD LEDs mounted on flexible printed circuit (FPC).
- The product is driven under constant current, which will ensure a longer life.

## **BVM-SFPC5C01 SERIES**



#### **■** FEATURES

- Number of SMD LEDs : 288 pcs of top view SMD LEDs
- Product size (LxWXH) :3000mm x 5.5mm x 2.0mm
- 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 62.22mm with 6 LEDs; 48 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

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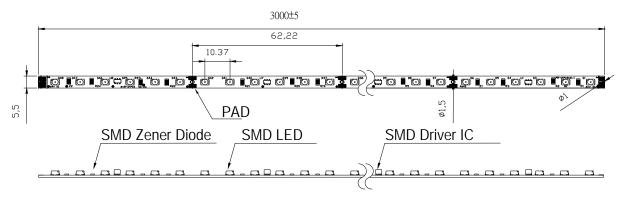


## **FLEXSTRIP LIGHT**

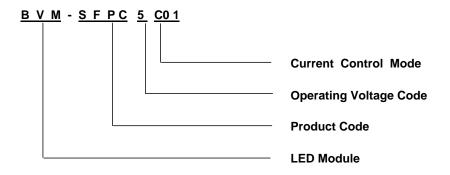
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#### **■ PRODUCT DIMENSIONS**

Unit: mm Tolerance : ±0.5mm



## **■ PART NUMBERING SYSTEM**



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## **FLEXSTRIP LIGHT**

## **BVM-SFPC5C01 SERIES**

#### ■ ABSOLUTE MAXIMUM RATINGS AT $Ta = 25 \, ^{\circ}$ C

PARAMETER	Maximum Ratings		
Maximum Operating Voltage	25	V	
Electrostatic Discharge (Contact Mode)	±2000	V	
Operating Temperature Range	−30 <b>~</b> +50	$^{\circ}\!\mathbb{C}$	
Storage Temperature Range	<b>−30</b> ~ +85	$^{\circ}\!\mathbb{C}$	

## ■ TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS AT 24VDC Ta = 25 $^{\circ}$ C

SYMBOL	PARAMETER	R3S	038	Y3S	B3S	G3S	W3S	Unit
	Color	Red	Orange	Yellow	Blue	Green	White	*
λd	Dominant Wavelength	624	605	589	470	525	*	nm
2θ <sub>1/2</sub>	LED Viewing Angle	110	110	110	110	110	110	deg
I <sub>R</sub>	Operating Current / Reel	0.89	0.89	0.89	0.89	0.89	0.89	Α
$\Phi_{R}$	Luminous Flux / Reel	720	624	576	437	442	1267	lm

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

Note 1. Luminous flux measurement tolerance : +/- 10%

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<sup>2.</sup> 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.



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## ■ BIN GRADE LIMITS CHROMATICITY COORDINATES

Bin Code	Color Temperature Rank (Kelvin)	Chromaticity Coordinates							
c1		Х	0.307	0.304	0.3147	0.3165			
	6300~7000	у	0.315	0.33	0.3423	0.325			
c2		Х	0.311	0.307	0.3165	0.3188			
02			0.294	0.315	0.325	0.3038			
c3	5500~6300	Х	0.3165	0.3147	0.33	0.33			
		у	0.325	0.3423	0.36	0.339			
c4		Х	0.3188	0.3165	0.33	0.33			
		у	0.3038	0.325	0.339	0.318			
d1		Х	0.33	0.33	0.3473	0.3453			
	5000~5500	у	0.339	0.36	0.3739	0.3514			
d2		Х	0.33	0.33		0.3436			
		у	0.318	0.339		0.3307			
d3		Х	0.3453	0.3473	0.361	0.3575			
45	4500~5000	у	0.3514	0.3739	0.385	0.3612			
d4	4300 3000	Х	0.3436	0.3453	0.3575	0.3545			
		у	0.3307	0.3514	0.3612	0.3408			
f1 f2	3800-3500	Х	0.3897	0.3988	0.4162	0.4053			
		у	0.3823	0.4116	0.42	0.3907			
		Х	0.3822	0.3897	0.4053	0.3954			
		у	0.358	0.3823	0.3907	0.3642			
"	3200~3500	Х	0.4053	0.4162	0.439	0.4255			
f3		у	0.3907	0.42	0.431	0.4			
f4		X	0.3954	0.4053	0.4255	0.4129			
		У	0.3642	0.3907	0.4	0.3725			
	2800~3200	X	0.4255	0.439	0.468	0.4519			
g1		У	0.4	0.431	0.4385	0.4086			
g2		X	0.4129	0.4255	0.4519	0.4355			
		У	0.3725	0.4	0.4086	0.3785			
h1	2500~2800	X	0.4519	0.468	0.497	0.477			
		У	0.4086	0.4385	0.4466	0.4137			
h2		X	0.4355	0.4519	0.477	0.4588			
		У	0.3785	0.4086	0.4137	0.3838			

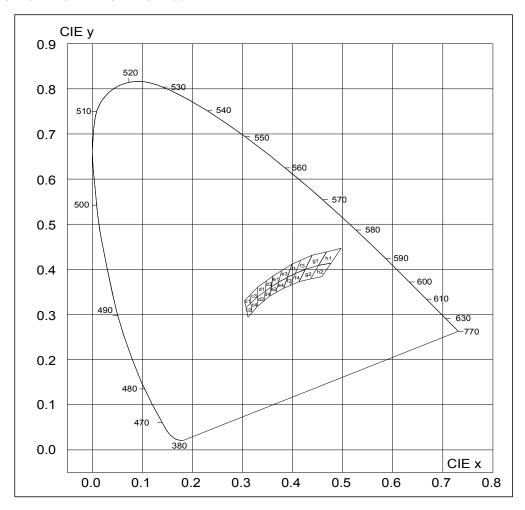
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#### ■ CHROMATICITY DIAGRAM CIE 1931



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

Note: The products of different CIE bins may use different materials and thus may have minor difference in characteristics and business terms.

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<sup>\*</sup>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.

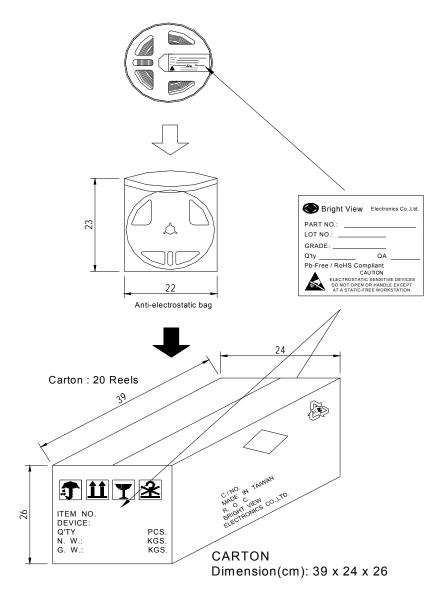
<sup>\*</sup>Measurement uncertainty of color coordinates: ±0.02



## **FLEXSTRIP LIGHT**

## **BVM-SFPC5C01 SERIES**

## **■** PACKING



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#### **FLEXSTRIP LIGHT**

#### /M-SFPC5C01 SERIES

#### CAUTIONS

#### 1. Over voltage

- A. Drive the product over the specified current/voltage rating 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.

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