Bright View Electronics

FLEXSTRIP LIGHT

BVM-SFPC5C01 SERIES



■ 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.

■ FEATURES

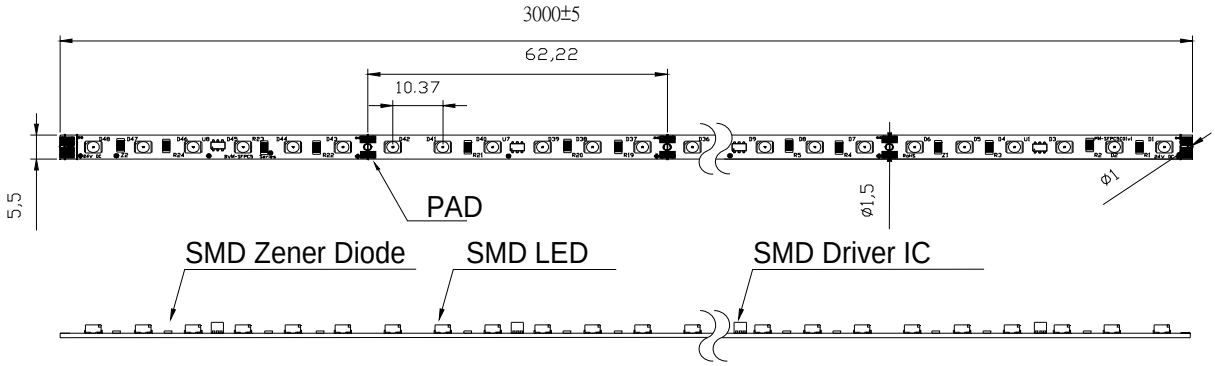
- Number of SMD LEDs : 288 pcs of top view SMD LEDs
- Product size (LxWXH) :3000mm x 5.5mm x 2.0mm
- Easy installation with the back adhesive-tape
- Products are packed into reel and can be cut at mark place into shorter units
- Shortest unit is 62.22mm with 6 LEDs; 48 shortest units per reel.
- Drive: 24VDC
- Low power consumption and high optical intensity
- Lead (Pb) free, and RoHS compliant

■ APPLICATIONS

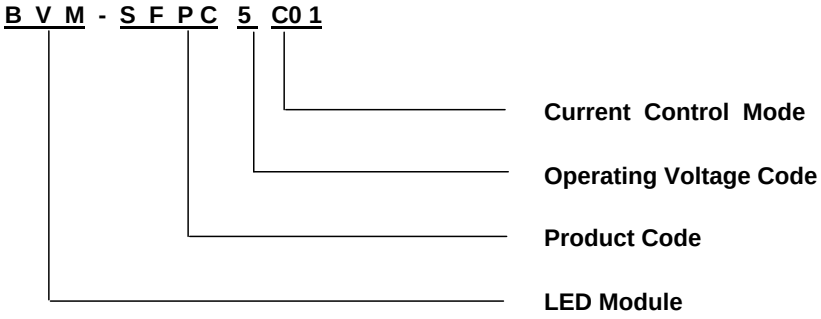
- Amusement park & theater mood lighting
- Architectural decorative lighting
- Backlighting for signage letters
- Auditorium walkway lighting
- Stairway accent lighting
- Hallway lighting

■ PRODUCT DIMENSIONS

Unit : mm
Tolerance : ±0.5mm



■ PART NUMBERING SYSTEM



■ ABSOLUTE MAXIMUM RATINGS AT Ta = 25℃

PARAMETER	Maximum Ratings	Unit
Maximum Operating Voltage	25	V
Electrostatic Discharge (Contact Mode)	±2000	V
Operating Temperature Range	－30 ~ ＋50	℃
Storage Temperature Range	－30 ~ ＋85	℃

■ TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS AT 24VDC Ta = 25℃

SYMBOL	PARAMETER	R3S	O3S	Y3S	B3S	G3S	W3S	Unit
	Color	Red	Orange	Yellow	Blue	Green	White	*
λd	Dominant Wavelength	624	605	589	470	525	*	nm
$2\theta_{1/2}$	LED Viewing Angle	110	110	110	110	110	110	deg
I_R	Operating Current / Reel	0.89	0.89	0.89	0.89	0.89	0.89	A
Φ_R	Luminous Flux / Reel	720	624	576	437	442	1267	lm

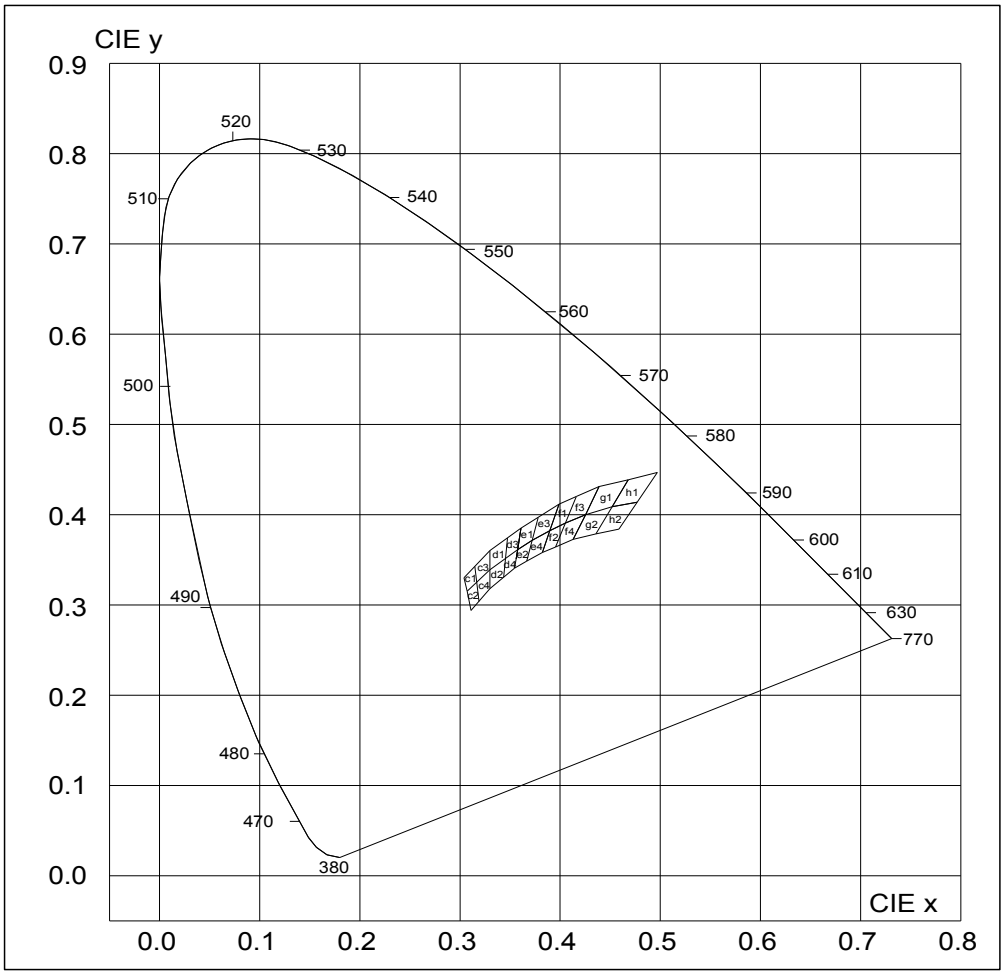
* White products are provided with different color temperature bins. (see following paragraph)

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

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



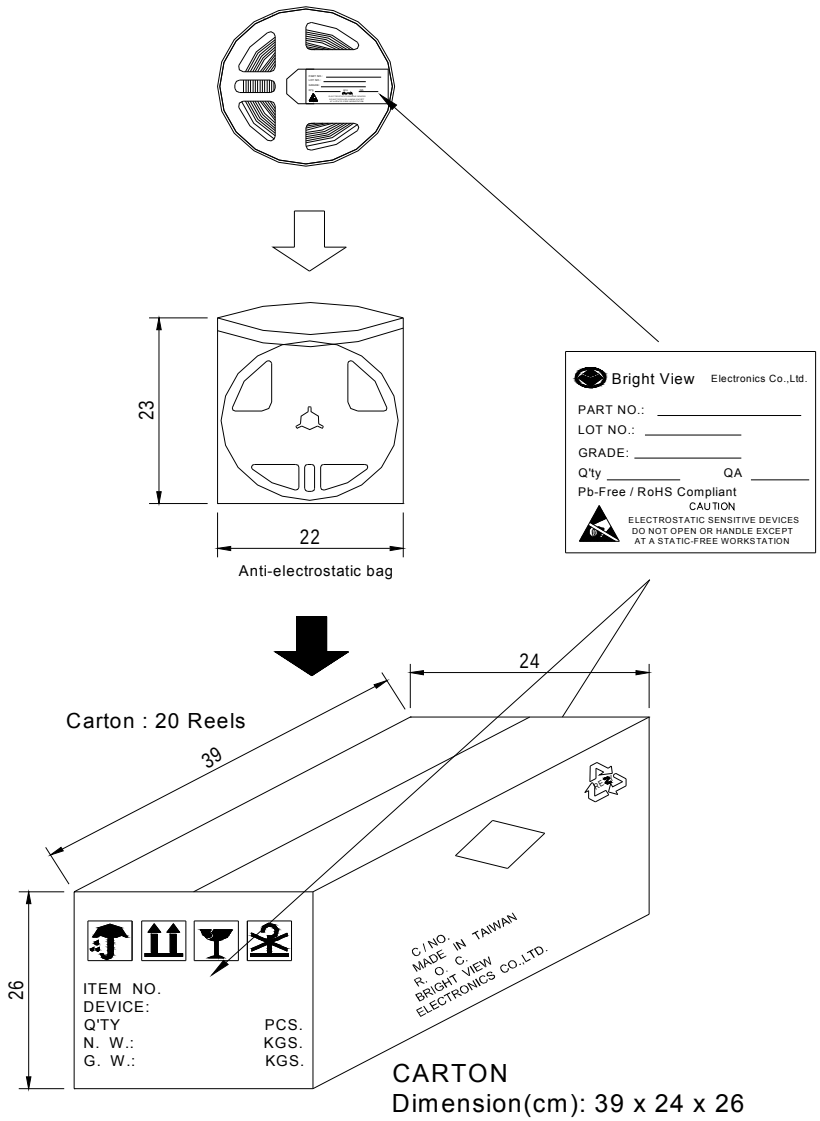
*The chromaticity coordinates (x,y) of the SMD LEDs are in accordance with CIE 1931 chromaticity diagram.

*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: ±0.02

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

■ PACKING



CARTON
Dimension(cm): 39 x 24 x 26

■ 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^{O}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.