

FLEXSTRIP LIGHT

BVM-SFPC3 SERIES

■ DESCRIPTION

Flexstrip Light is high brightness SMD LED mounted on FPC.
Six colors (red, orange red, yellow, green, blue and white) are available
for variable applications.



■ FEATURES

Product Size (LxWXH) : 4032mm x 10mm x 2.2mm(with 288pcs LED per reel)
Product Size (LxWXH) : 4032mm x 10mm x 2.6mm(with adhesive-tape back)
Smallest unit(84mm) of 6 LEDs can be cut at mark place
Continuous length flexible LED light strips
Low power consumption, high intensity
Runs on DC 12 volt power supply
Optionally provided with adhesive-tape back at temperature rang -30°C to 200°C
BVM-SFPC3W2S-T:("-T" with adhesive-tape back)
Pb-Free / RoHS compliant

■ APPLICATIONS

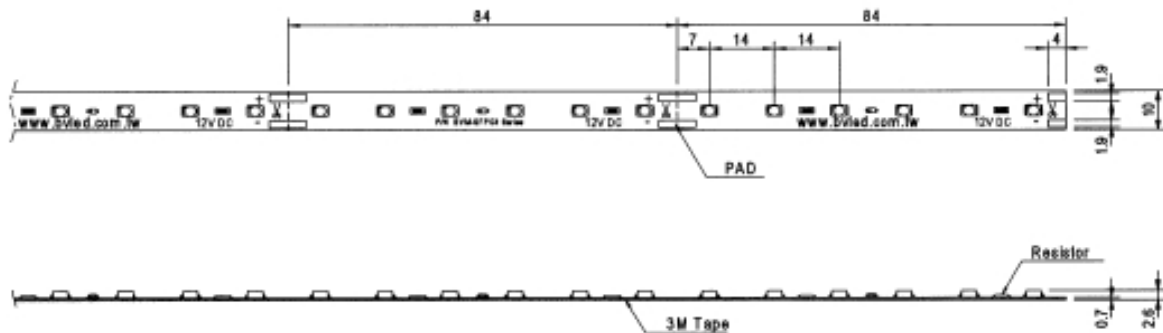
Amusement park & theater mood lighting
Architectural decorative lighting
Backlighting for signage letters
Auditorium walkway lighting
Stairway accent lighting
Hallway lighting

FLEXSTRIP LIGHT

BVM-SFPC3 SERIES

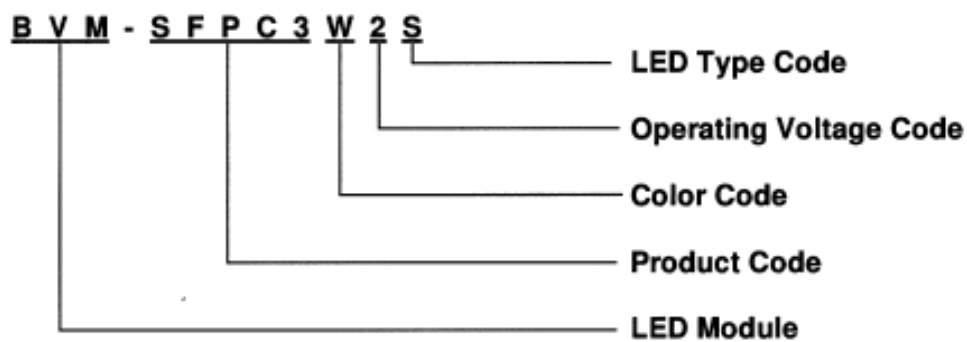
■ PRODUCT DIMENSION

Unit : mm



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

■ PART NUMBERING SYSTEM



FLEXSTRIP LIGHT

BVM-SFPC3 SERIES

■ ABSOLUTE MAXIMUM RATINGS AT $T_a = 25\text{ }^{\circ}\text{C}$

PARAMETER	BVM-SFPC3					
	R2S	O2S	Y2S	B2S	G2S	W2S
Operating Voltage	12V	12V	12V	12V	12V	12V
Operating Voltage(max.)	13V	13V	13V	13V	13V	13V
Electrostatic discharge(HBM)	2000V					
Power dissipation/Unit	0.65W					
Total power dissipation / 48 unit	31.2W					
Luminous intensity matching ratio	1.3:1					
Operating Temperature Range	$-30\text{ }^{\circ}\text{C}$ to $+65\text{ }^{\circ}\text{C}$					
Storage Temperature Range	$-30\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$					

* ESD 2KV(HBM, measuring by LED component), test pulse input anode

■ ELECTRICAL / OPTICAL CHARACTERISTICS AT 12VDC $T_a = 25\text{ }^{\circ}\text{C}$

SYMBOL	PARAMETER	BVM-SFPC3						Unit
		R2S	O2S	Y2S	B2S	G2S	W2S	
	Light Color	Red	Orange	Yellow	Blue	Green	White	
λ_p	Peak Emission Wavelength	632	611	591	465	520		nm
λ_d	Dominant Wavelength	624	605	589	470	525		nm
$2\theta_{1/2}$	LED Viewing Angle	110	110	110	110	110	110	deg
I	Operating current/Unit	40	40	40	40	40	40	mA
Φ	Luminous flux/unit (Typ.)	6.6	4.2	8.4	3.0	8.4	19.8	lm

■ SMD LED Dominant Wavelength for BIN Code / nm

Orange		Yellow		Green	
Bin Code	Range	Bin Code	Range	Bin Code	Range
AC	602~606	YC	582~585	PG	518~521
AD	606~610	YD	585~588	PH	521~524
AE	610~614	YE	588~591	PI	524~527
AF	614~618	YF	591~594	PJ	527~530
AG	618~622	YG	594~597	PK	530~533

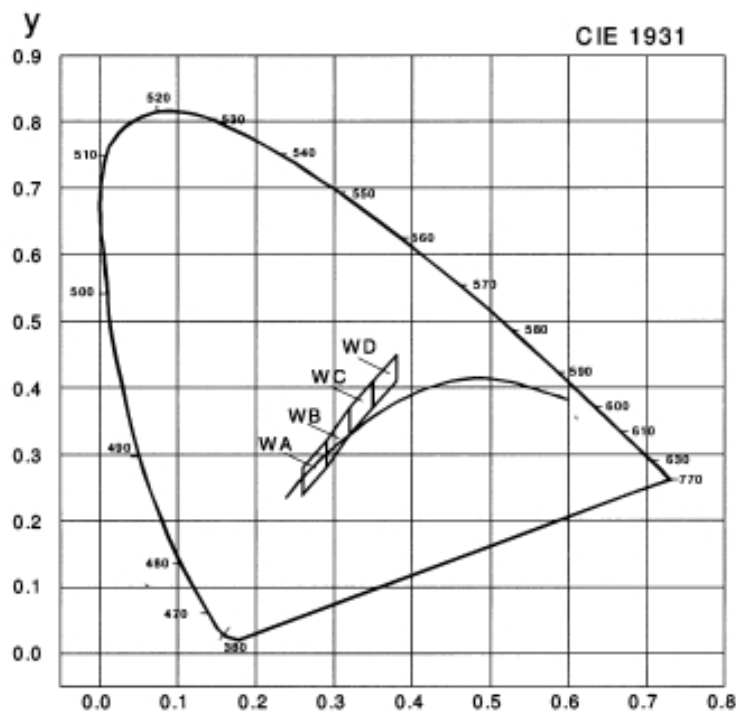
FLEXSTRIP LIGHT

BVM-SFPC3 SERIES

■ **BIN GRADE LIMITS CHROMATICITY COORDINATES**

WA	x	0.26	0.26	0.29	0.29
	y	0.24	0.28	0.32	0.28
	Kelvin	29831	13563	8005	9336
WB	x	0.29	0.29	0.32	0.32
	y	0.28	0.32	0.37	0.33
	Kelvin	9336	8005	5962	6092
WC	x	0.32	0.32	0.35	0.35
	y	0.33	0.37	0.41	0.37
	Kelvin	6092	5962	4995	4876
WD	x	0.35	0.35	0.38	0.38
	y	0.37	0.41	0.45	0.41
	Kelvin	4876	4995	4404	4209

■ **CHROMATICITY DIAGRAM CIE 1931**



*The chromaticity coordinates (x,y) of the colors of SMD LED are accordant with CIE chromaticity diagram.

*The above kelvin values are more or less different from the traditional bulb and may be used only for reference purpose.

*measurement uncertainty of color coordinates: ± 0.02