

Bridgelux® SMD 2835 1W 9V Thrive™

Product Data Sheet DS310

BXEN-27S 30S 35S 40S 50S 57S 65S

SMD 2835 Thrive



Introduction

Bridgelux Thrive[™] combines unique chip, phosphor and packaging technology to closely match the spectra of natural light over the visible wavelength range. Thrive can be used in constant color point luminaires to bring full spectrum natural light indoors or in tunable white luminaires to incorporate circadian elements that may impact human well-being. The high fidelity spectral output of Thrive creates stunning environments with excellent color rendering and outstanding TM30 metrics. Thrive is available in both SMD components and LED arrays to enable a broad range of lighting applications including retail, hospitality, office, education, architectural, museums, healthcare and residential lighting.

Features

- Engineered spectra to closely match natural light
- CRI > 95, R1-R15 >90, high Rf and Rg values
- High efficiency full spectrum solution
- No violet chip augmentation
- Hot color targeted
- Industry standard 2835 footprint
- Broad product platform availability (SMDs and COBs)

Benefits

- Full consistent spectrum with fewer spectral spikes
- Natural and vivid color rendering
- Greater energy savings, lower utility costs
- Economical, high efficiency solution
- Uniform and consistent white light under application conditions
- · Ease of design and rapid go-to-market
- Enables greater design flexibility and platform color consistency

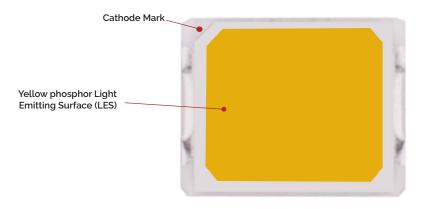


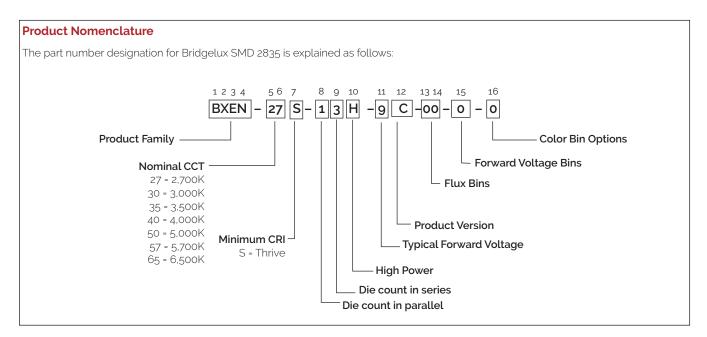
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Product Feature Map

Bridgelux SMD LED products come in industry standard package sizes and follow ANSI binning standards. These LEDs are optimized for cost and performance, helping to ensure highly competitive system lumen per dollar performance while addressing the stringent efficacy and reliability standards required for modern lighting applications.





Product Test Conditions

Bridgelux SMD 2835 LEDs are tested and binned with a 10ms pulse of 100mA at T_j (junction temperature)=T_{sp} (solder point temperature) =25°C. Forward voltage and luminous flux are binned at a T_i=T_{sp}=25°C, while color is hot targeted at a T_{sp} of 85°C.

Product Selection Guide

The following product configurations are available:

	Nominal		Nominal Drive	Fo	orward Voltage (V)	4 .5	Typical	Typical	Typical	
Part Number ¹⁶	CCT ² (K)	CRI ^{3.5}	Current (mA)	Min	Typical	Max	Pulsed Flux (lm) ^{4.5}	Power (W)	Efficacy (lm/W)	
BXEN-27S-13H-9C-00-0-0	2700	95	100	8.8	9.1	9.3	94	0.9	103	
BXEN-30S-13H-9C-00-0-0	3000	95	100	8.8	9.1	9.3	98	0.9	108	
BXEN-35S-13H-9C-00-0-0	3500	95	100	8.8	9.1	9.3	98	0.9	108	
BXEN-40S-13H-9C-00-0-0	4000	95	100	8.8	9.1	9.3	107	0.9	118	
BXEN-50S-13H-9C-00-0-0	5000	95	100	8.8	9.1	9.3	107	0.9	118	
BXEN-57S-13H-9C-00-0-0	5700	95	100	8.8	9.1	9.3	107	0.9	118	
BXEN-65S-13H-9C-00-0-0	6500	95	100	8.8	9.1	9.3	107	0.9	118	

Table 1: Selection Guide, Pulsed Measurement Data at 100mA ($T_i = T_{co} = 25^{\circ}C$)

Table 2: Selection Guide, Pulsed Test Performance at 100mA ($T_{sp} = 85^{\circ}C$)^{7.8}

Part Number ¹⁶	Nominal CCT ²	CRI ^{3.5}	Nominal Forward Voltage ⁵ Drive (V)		Typical Pulsed Flux	Typical Power	Typical Efficacy	Typical Photosynthetic	Typical Photon		
	(K)	Cita	Current (mA)	Min	Typical	Max	(lm)⁵	(\\/)	(lm/W)	Photon Flux ⁹ (µmol/s)	Efficiency (µmol/J)
BXEN-27S-13H-9C-00-0-0	2700	95	100	8.6	8.9	9.1	86	0.9	96	1.50	1.82
BXEN-30S-13H-9C-00-0-0	3000	95	100	8.6	8.9	9.1	89	0.9	100	1.53	1.85
BXEN-35S-13H-9C-00-0-0	3500	95	100	8.6	8.9	9.1	89	0.9	100	1.48	1.77
BXEN-40S-13H-9C-00-0-0	4000	95	100	8.6	8.9	9.1	96	0.9	108	1.58	1.87
BXEN-50S-13H-9C-00-0-0	5000	95	100	8.6	8.9	9.1	96	0.9	108	1.59	1.87
BXEN-57S-13H-9C-00-0-0	5700	95	100	8.6	8.9	9.1	96	0.9	108	1.59	1.86
BXEN-65S-13H-9C-00-0-0	6500	95	100	8.6	8.9	9.1	96	0.9	108	1.59	1.85

Notes for Tables 1 & 2

1. The last 6 characters (including hyphens '-') refer to flux bins, forward voltage bins, and color bin options, respectively. *00-0-0* denotes the full distribution of flux, forward voltage, and 6 SDCM color.

Example: BXEN-27S-13H-9C-00-0 refers to the full distribution of flux, forward voltage, and color within a 2700K 6-step ANSI standard chromaticity region with a minimum of 95 CRI, 1x3 die configuration, high power, 9.1V typical forward voltage.

2. Product CCT is hot targeted at T_{sn} = 85°C. Nominal CCT as defined by ANSI C78.377-2011.

3. Listed CRIs are minimum values and include test tolerance.

4. Products tested under pulsed condition (10ms pulse width) at nominal drive current where T_i=T_{so}=25°C.

5. Bridgelux maintains a ±7.5% tolerance on luminous flux measurements, ±0.1V tolerance on forward voltage measurements, and ±2 tolerance on CRI measurements for the SMD 2835.

6. Refer to Table 6 and Table 7 for Bridgelux SMD 2835 Luminous Flux Binning and Forward Voltage Binning information.

7. Typical pulsed test performance values are provided as reference only and are not a guarantee of performance.

8. Typical performance is estimated based on operation under pulsed current with LED emitter mounted onto a heat sink with thermal interface material and the solder point temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.

9. Photosynthetic Photon Flux is measure of photon flux in the 400nm-700nm region.

Spectrum Characteristics

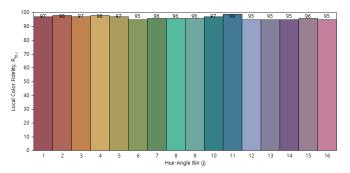
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Nominal CCT ¹	R _f	R _g	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
2700K	95	100	98	99	96	96	98	97	96	94	91	98	93	97	98	96	97
3000K	96	100	97	98	96	96	97	97	98	97	94	99	93	97	97	96	98
3500K	95	98	98	98	97	98	98	98	98	97	93	97	97	95	98	97	98
4000K	95	98	98	98	97	98	98	98	98	96	92	97	98	94	98	98	97
5000K	94	98	98	98	99	96	97	98	96	96	94	98	97	92	98	98	96
5700K	94	98	98	98	97	95	98	97	96	95	92	97	96	96	98	98	97
6500K	95	98	98	98	97	96	98	98	96	96	93	97	96	97	98	98	97

Table 3: Typical Color Rendering Index and TM-30 Values, 100mA, $T_{\rm sn}$ =85°C $^{\rm 1}$

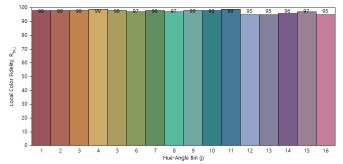
Note for Table 3:

1. Bridgelux maintains a tolerance of ± 3 on Color Rendering Index R1-R15 measurements and TM-30 measurements.

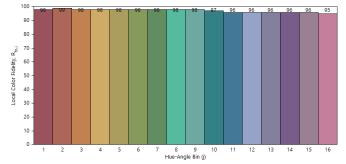
Figure 1: 2700K Thrive TM-30 Graphs

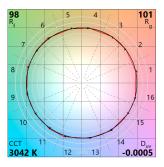


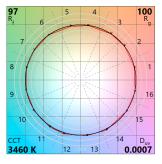












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Spectrum Characteristics

Local Color Fidelity, R_{fh,i} 60 -50 -40 -30 -20 -7 8 9 Hue-Angle Bin (j)

Figure 5: 5000K Thrive TM-30 Graphs

Figure 4: 4000K Thrive TM-30 Graphs

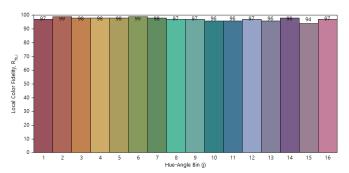


Figure 6: 5700K Thrive TM-30 Graphs

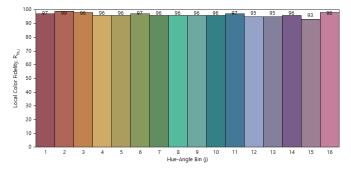
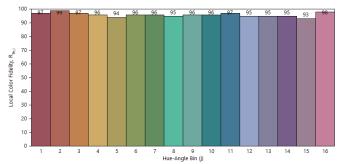
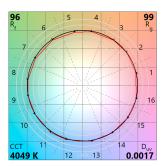
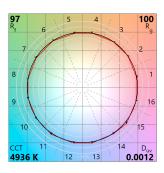
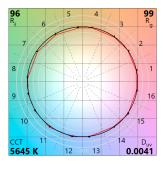


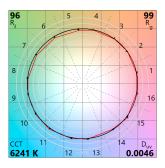
Figure 7: 6500K Thrive TM-30 Graphs





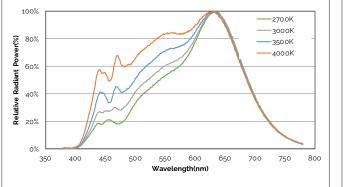


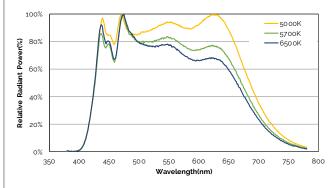




Spectrum Characteristics

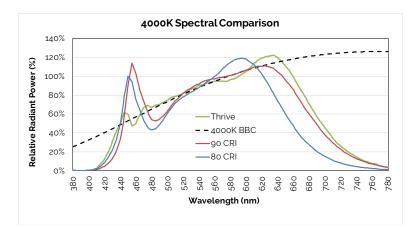
Figure 8: Typical Color Spectrum





Note for Figure 8:

1. Color spectra measured at nominal current for T_{sp} = 85°C.



Spectral Matching to Natural Light

Humans have evolved and thrived for millions of years under the sun's natural daylight. While discussions continue regarding the development of LED products with artificial spectra aimed at increasing productivity and focus or helping with relaxation, the long-term physiological effects of such altered environments on humans remains unknown.

Bridgelux Thrive is engineered to provide the closest match to natural light using proprietary chip, phosphor and packaging technology. Bridgelux is working with our customers and industry partners to define new metrics to describe and quantify this spectral matching; going beyond today's quality of light metrics such as CRI and TM-30.

To quantify spectral matching, Bridgelux has defined a new term; Average Spectral Difference (ASD). ASD is calculated by measuring the absolute difference between the LED spectrum and a natural light source spectrum at discrete wavelengths. These values are then averaged across different wavelength ranges and reported as a percentage. Natural light is defined by the Black Body Curve for sources below 5000K or by the CIE Standard Illuminant D for sources of 5000K or above (D50 for example).

Bridgelux Thrive has an ASD between 3% and 7% for all color points (2700K – 6500K) across the typical LED wavelength range of 440-650nm. This includes a very close spectral match, with an ASD of only 2% for some color point options, in the blue/cyan color range where most other LED light sources suffer. For comparison purposes, standard 80, 90 and 98 CRI light sources have an ASD that is 2-6 times larger than Thrive over the same wavelength range and up to 20 times greater in the cyan wavelength range.

As the industry evolves toward human centric lighting, Bridgelux will work with our customers and industry experts to educate the market about the benefits of the ASD metric to further quantify the quality of light.

Electrical Characteristics

Table 4: Electrical Characteristics

	Drive Current	Fo	orward Voltac (V) ^{2,3}	je	Typical Temperature Coefficient	Typical Thermal	
Part Number ¹	(mA)	(mA)		Maximum	of Forward Voltage ΔV _r /ΔT (mV/°C)	Resistance Junction to Solder Point⁴ R _{j-sp} (°C∕W)	
BXEN-XXX-13H-9C-00-0-0	100	8.8	9.1	9.6	-2.89	16	

Notes for Table 4:

1. The last 6 characters (including hyphens '--) refer to flux bins, forward voltage bins, and color bin options, respectively. "00-0-00" denotes the full distribution of flux, forward voltage, and 6 SDCM color.

Example: BXEN-27S-13H-9C-00-0 refers to the full distribution of flux, forward voltage, and color within a 2700K 6-step ANSI standard chromaticity region with a minimum of 95 CRI, 1x3 die configuration, high power, 9.1V typical forward voltage.

2. Bridgelux maintains a tolerance of ± 0.1V on forward voltage measurements. Voltage minimum and maximum values at the nominal drive current are guaranteed by 100% test.

3. Products tested under pulsed condition (10ms pulse width) at nominal drive current where Tsp = 25°C.

4. Thermal resistance value was calculated using total electrical input power; optical power was not subtracted from input power.

Absolute Maximum Ratings

Table 5: Maximum Ratings

Parameter	Maximum Rating				
LED Junction Temperature (T _j)	125°C				
Storage Temperature	-40°C to +105°C				
Operating Solder Point Temperature (T _{sp})	-40°C to +105°C				
Soldering Temperature	260°C or lower for a maximum of 10 seconds				
Maximum Drive Current	120mA				
Maximum Peak Pulsed Forward Current ¹	240mA				
Maximum Reverse Voltage ²	_				
Moisture Sensitivity Rating	MSL 3				
Electrostatic Discharge	2kV HBM. JEDEC-JS-001-HBM and JEDEC-JS-001-2012				

Notes for Table 5:

1. Bridgelux recommends a maximum duty cycle of 10% and pulse width of 10 ms when operating LED SMD at maximum peak pulsed current specified. Maximum peak pulsed current indicate values where LED SMD can be driven without catastrophic failures.

2. Light emitting diodes are not designed to be driven in reverse voltage and will not produce light under this condition. no rating is provided.

Product Bin Definitions

Table 6 lists the standard photometric luminous flux bins for Bridgelux SMD 2835 LEDs. Although several bins are listed, product availability in a particular bin varies by production run and by product performance. Not all bins are available in all CCTs.

Bin Code	Minimum	Maximum	Unit	Condition	
5A	90	95			
5B	95	100	lm	L-100mA	
5C	100	105		l _F =100mA	
5D	105	110			

Table 6: Luminous Flux Bin Definitions at 100mA, T_=25°C

Note for Table 6:

1. Bridgelux maintains a tolerance of ± 7.5% on luminous flux measurements.

Table 7: Forward Voltage Bin Definition at 100mA, T_{sp} =25°C

Bin Code	Minimum	Maximum	Unit	Condition
U	8.8	9.0		
V	9.0	9.2		
W	9.2	9.4	V	I _F =100mA
Х	9.4	9.6		
Y	9.6	9.8		

Note for Table 7:

1. Bridgelux maintains a tolerance of ± 0.1V on forward voltage measurements.

Product Bin Definitions

Table 8: MacAdam Ellipse Color Bin Definitions

сст		Cente	er Point			Ellipse	- · -·
CCI	Color Space	X	Y	- Major Axis	Minor Axis	Rotation Angle	Color Bin
	2 SDCM	0.4578	0.4101	0.0054	0.0028	53.70	2
	3 SDCM	0.4578	0.4101	0.0081	0.0042	53.70	2/3
2700K	4 SDCM	0.4578	0.4101	0.0108	0.0056	53.70	2/3/A/B/C/
	6 SDCM	0.4578	0.4101	0.0162	0.0084	53.70	2/3/A/B/C/I E/F/G/H/J/
	2 SDCM	0.4338	0.4030	0.00556	0.00272	53.22	2
	3 SDCM	0.4338	0.4030	0.00834	0.00408	53.22	2/3
3000K	4 SDCM	0.4338	0.4030	0.01112	0.00544	53.22	2/3/A/B/C/
	6 SDCM	0.4338	0.4030	0.01668	0.00816	53.22	2/3/A/B/C/I E/F/G/H/J/
	2 SDCM	0.4073	0.3917	0.00618	0.00276	54.00	2
	3 SDCM	0.4073	0.3917	0.00927	0.00414	54.00	2/3
3500K	4 SDCM	0.4073	0.3917	0.01236	0.00552	54.00	2/3/A/B/C/
	6 SDCM	0.4073	0.3917	0.01854	0.00828	54.00	2/3/A/B/C/I E/F/G/H/J/
	2 SDCM	0.3818	0.3797	0.00626	0.00268	53.72	2
	3 SDCM	0.3818	0.3797	0.00939	0.00402	53.72	2/3
4000K	4 SDCM	0.3818	0.3797	0.01252	0.00536	53.72	2/3/A/B/C/
	6 SDCM	0.3818	0.3797	0.01878	0.00804	53.72	2/3/A/B/C/ E/F/G/H/J/
	3 SDCM	0.3447	0.3553	0.00822	0.00354	59.62	3
	4 SDCM	0.3447	0.3553	0.01096	0.00472	59.62	3/4
5000K	5 SDCM	0.3447	0.3553	0.0137	0.0059	59.62	3/4/A/B/C/
	6 SDCM	0.3447	0.3553	0.01644	0.00708	59.62	3/4/A/B/C/I E/F/G/H/J/
	3 SDCM	0.3287	0.3417	0.00746	0.00320	59.09	3
	4 SDCM	0.3287	0.3417	0.00995	0.00427	59.09	3/4
5700K	5 SDCM	0.3287	0.3417	0.01243	0.00533	59.09	3/4/A/B/C/
	6 SDCM	0.3287	0.3417	0.01492	0.00640	59.09	3/4/A/B/C/I E/F/G/H/J/
	3 SDCM	0.3123	0.3282	0.00669	0.00285	58.57	3
	4 SDCM	0.3123	0.3282	0.00892	0.0038	58.57	3/4
6500K	5 SDCM	0.3123	0.3282	0.01115	0.00475	58.57	3/4/A/B/C/
	6 SDCM	0.3123	0.3282	0.01338	0.0057	58.57	3/4/A/B/C/I E/F/G/H/J/

Notes for Table 8:

1. Color binning at T_{sp} =85°C unless otherwise specified

2. Bridgelux maintains a tolerance of ± 0.007 on x and y color coordinates in the CIE 1931 color space.

Product Bin Definitions

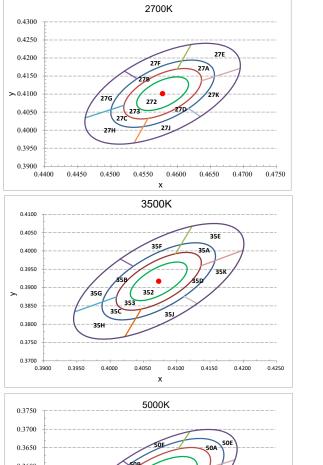
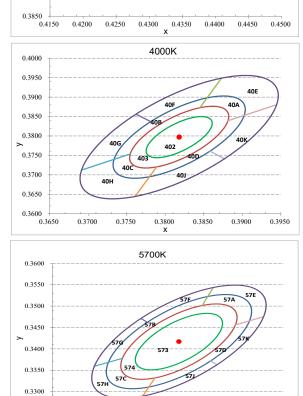


Figure 9: C.I.E. 1931 Chromaticity Diagram (Color Targeted at T_{sp} =85°C)



3000K

30F

ROF

303

300

30G

30H

302

30

30E

30К

30/

0.4200

0.4150

0.4100

0.4050

0.4000

0.3950

0.3900

0.3250

0.3200

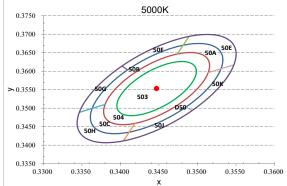
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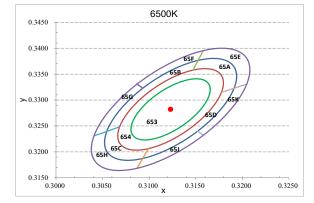
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0.3350

0.3400

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Performance Curves

Figure 10: Drive Current vs. Voltage (T_{sp}=25°C)

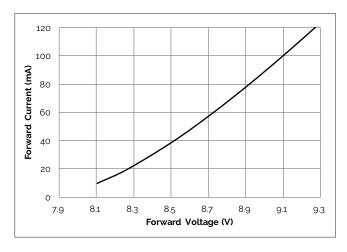
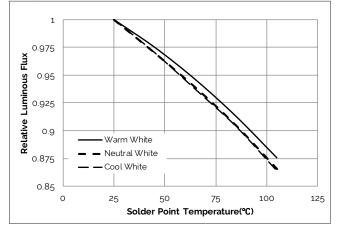
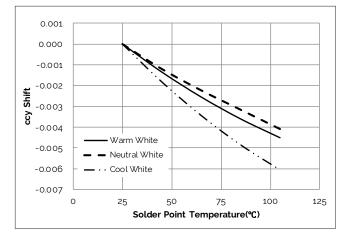


Figure 12: Typical Relative Flux vs. Solder Point Temperature^{2,3,4,5}







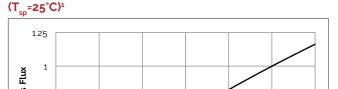
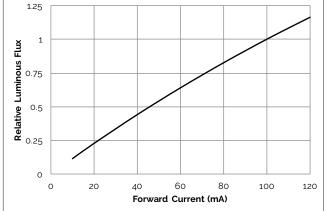
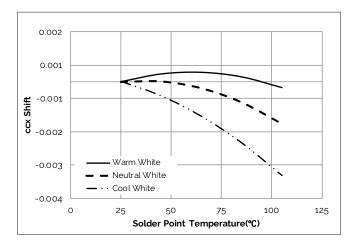


Figure 11: Typical Relative Luminous Flux vs. Drive Current







Note for Figures 11-14:

- 1. Bridgelux does not recommend driving high power LEDs at low currents. Doing so may produce unpredictable results. Pulse width modulation (PWM) is recommended for dimming effects.
- 2. Characteristics shown for warm white based on 2700K.
- 3. Characteristics shown for neutral white based on 4000K.
- 4. Characteristics shown for cool white based on 5000K.
- 5. For other color SKUs, the shift in color will vary. Please contact your Bridgelux Sales Representative for more information

Typical Radiation Pattern

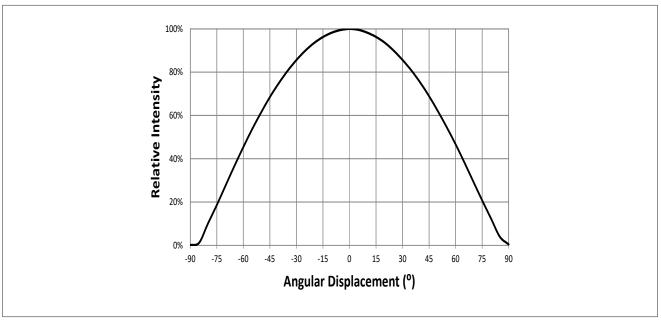


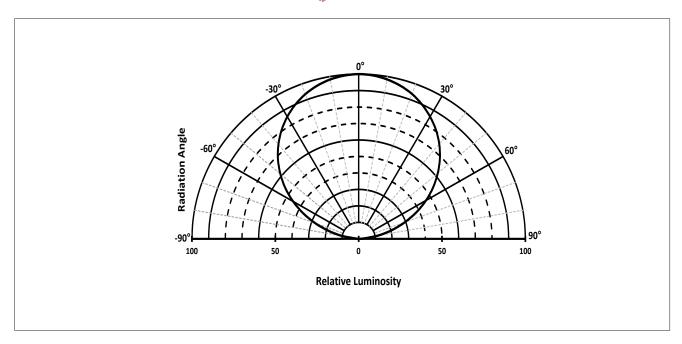
Figure 15: Typical Spatial Radiation Pattern at 100mA, T_{sp} =25°C

Notes for Figure 15:

1. Typical viewing angle is 116° .

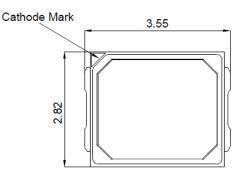
2. The viewing angle is defined as the off axis angle from the centerline where luminous intensity (Iv) is ½ of the peak value.

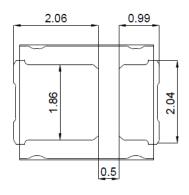
Figure 16: Typical Polar Radiation Pattern at 100mA, T_{sp}=25°C



Mechanical Dimensions

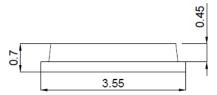
Figure 17: Drawing for SMD 2835





Top view







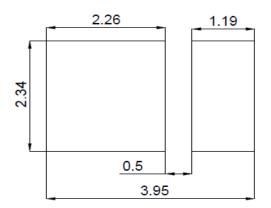


Notes for Figure 17:

- 1. Drawings are not to scale.
- 2. Drawing dimensions are in millimeters.

3. Unless otherwise specified, tolerances are ± 0.10mm.

Recommended PCB Soldering Pad Pattern



Reliability

Table 9: Reliability Test Items and Conditions

No .	Items	Reference Standard	Test Conditions	Drive Current	Test Duration	Units Failed/Tested
1	Moisture/Reflow Sensitivity	J-STD-020E	T _{sld} = 260°C, 10sec, Precondition: 60°C, 60%RH, 168hr	-	3 reflows	0/22
2	Low Temperature Storage	JESD22-A119	T _a =-40°C	-	1000 hours	0/22
3	High Temperature Storage	JESD22-A103D	T _a = 105°C	-	1000 hours	0/22
4	Low Temperature Operating Life	JESD22-A108D	T _a =−40°C	100mA	1000 hours	0/22
5	Temperature Humidity Operating Life	JESD22-A101C	T _{sp} =85°C, RH=85%	100mA	1000 hours	0/22
6	High Temperature Operating Life	JESD22-A108D	T _{sp} =105 [°] C	120mA	1000 hours	0/22
7	Power switching	IEC62717:2014	T _{sp} = 105°C 30 sec on, 30 sec off	120mA	30000 cycles	0/22
8	Thermal Shock	JESD22-A106B	T _a =-40°C ~100°C; Dwell : 15min; Transfer: 10sec	-	200 cycles	0/22
9	Temperature Cycle	JESD22-A104E	T _a =-40°C ~100°C; Dwell at extreme temperature: 15min; Ramp rate < 105°C/min	_	200 cycles	0/22
10	Electrostatic Discharge	JS-001-2012	HBM, 2KV, 1.5kΩ, 100pF, Alternately positive or negative	-	-	0/22

Passing Criteria

Item	Symbol	Test Condition	Passing Criteria
Forward Voltage	Vf	100mA	∆Vf<10%
Luminous Flux	Fv	100mA	ΔFv<30%
Chromaticity Coordinates	(x, y)	100mA	∆u'v'<0.007

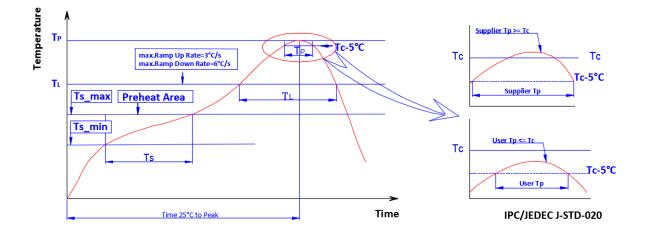
Notes for Table 9:

1. Measurements are performed after allowing the LEDs to return to room temperature

2. $\rm T_{sld}$: reflow soldering temperature; $\rm T_{a}$: ambient temperature

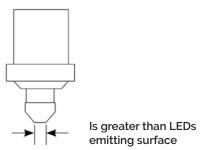
Reflow Characteristics

Figure 18 : Reflow Profile



Profile Feature	Lead Free Assembly			
Temperature Min. (Ts_min)	160°C			
Temperature Max. (Ts_max)	205°C			
Time (ts) from Ts_min to Ts_max	60-150 seconds			
Ramp-Up Rate (TL to Tp)	3 °C/second			
Liquidus Temperature (TL)	220 °C			
Time (TL) Maintained Above TL	60-150 seconds			
Peak Temp(Tp)	260 °C max.			
Time (Tp) Within 5 °C of the Specified Classification Temperature (Tc)	25 seconds max.			
Ramp-Down Rate (Tp to TL)	5 °C/second max.			
Time 25 °C to Peak Temperature	10 minutes max.			

Figure 19 : Pick and Place

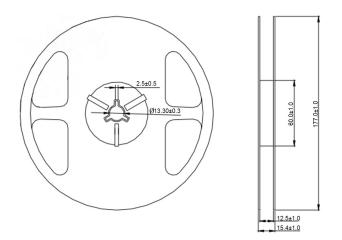


Note for Figure 19:

1. When using a pick and place machine, choose a nozzle that has a larger diameter than the LED's emitting surface. Using a Pick-and-Place nozzle with a smaller diameter than the size of the LEDs emitting surface will cause damage and may also cause the LED to not illuminate.



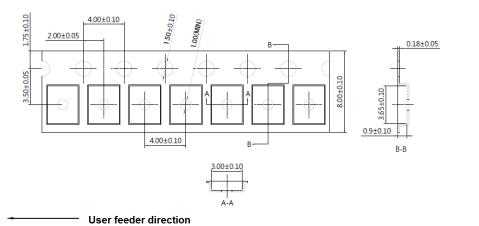
Figure 20: Emitter Reel Drawings

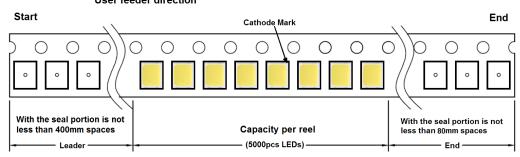


Note for Figure 20:

1. Drawings are not to scale. Drawing dimensions are in millimeters.

Figure 21: Emitter Tape Drawings





Note for Figure 21:

1. Drawings are not to scale. Drawing dimensions are in millimeters.

Packaging

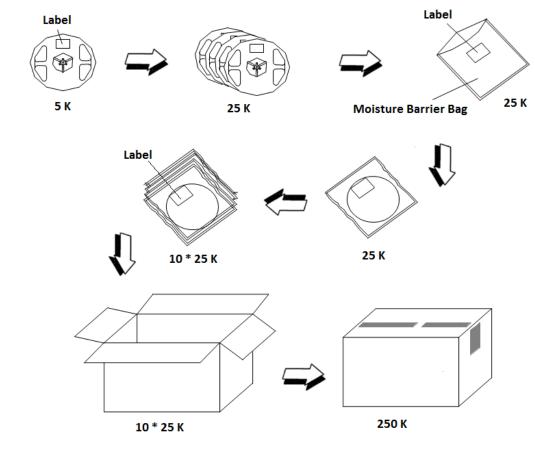


Figure 22: SMD 2835 Packaging and Labeling

Note for Figure 22:

1. Drawings are not to scale.

Design Resources

Please contact your Bridgelux sales representative for assistance.

Precautions

CAUTION: CHEMICAL EXPOSURE HAZARD

Exposure to some chemicals commonly used in luminaire manufacturing and assembly can cause damage to the LED emitter. Please consult Bridgelux Application Note AN51 for additional information.

CAUTION: EYE SAFETY

Eye safety classification for the use of Bridgelux SMD LED emitter is in accordance with IEC specification EN62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires are classified as Risk Group 1 when operated at or below the maximum drive current. Please use appropriate precautions. It is important that employees working with LEDs are trained to use them safely.

CAUTION: RISK OF BURN

Do not touch the SMD LED emitter during operation. Allow the emitter to cool for a sufficient period of time before handling. The SMD LED emitter may reach elevated temperatures such that could burn skin when touched.

Disclaimers

MINOR PRODUCT CHANGE POLICY

The rigorous qualification testing on products offered by Bridgelux provides performance assurance. Slight cosmetic changes that do not affect form, fit, or function may occur as Bridgelux continues product optimization.

CAUTION

CONTACT WITH LIGHT EMITTING SURFACE (LES)

Avoid any contact with the LES. Do not touch the LES of the emitter or apply stress to the LES (yellow phosphor resin area). Contact may cause damage to the emitter

Optics and reflectors must not be mounted in contact with the LES (yellow phosphor resin area).

STANDARD TEST CONDITIONS

Unless otherwise stated, LED emitter testing is performed at the nominal drive current.

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At Bridgelux, we help companies, industries and people experience the power and possibility of light. Since 2002, we've designed LED solutions that are high performing, energy efficient, cost effective and easy to integrate. Our focus is on light's impact on human behavior, delivering products that create better environments, experiences and returns—both experiential and financial. And our patented technology drives new platforms for commercial and industrial luminaires.

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