

LBL-BI-5620

Product Specification

LBL-BI-5620

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Product Specification

Model Name	LBL-BI-5620
Issue Date	2016.10.13



Model Name	Dimension (mm)	CCT (K)	CRI	Ordering Code
LBL-BI-5620	560*20*1.0	2700K & 6500K	80	LBI-5620-82765
		2700K & 4000K	90	LBI-5620-92740

■ Feature

- ✓ Excellent flexibility for Linear application design
- ✓ Warm & white color tuning
- ✓ 5 years warranty
- ✓ CRI >90 available
- ✓ 3 SDCM binning
- ✓ Compliant with Zhaga Book 7
- ✓ Narrow width 20mm

■ Application

- ✓ Office lighting
- ✓ General Lighting
- ✓ Industry
- ✓ Retail

Characteristic

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■ Optical Characteristics (Tc=55°C)

LBI-2820-82765

Parameter	CCT ⁽²⁾	Min.	Typical	Max.	Unit
Luminous Flux ⁽¹⁾	2700K	2070	2250		lm
	6500K	2260	2400		

Parameter	Min.	Typical	Max.	Unit
Forward Current		350		mA
Color Rendering Index ⁽³⁾	80			-

LBI-2820-92740

Parameter	CCT ⁽²⁾	Min.	Typical	Max.	Unit
Luminous Flux ⁽¹⁾	2700K	1700	1850		lm
	4000K	1850	1990		

Parameter	Min.	Typical	Max.	Unit
Forward Current		350		mA
Color Rendering Index ⁽³⁾	90			-

Notes:

- (1) Measurement tolerance of luminous flux is $\pm 7\%$.
- (2) Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram.
- (3) Measurement tolerance of CRI is ± 3 .
- (4) Color consistency is 3 SDCM, measurement tolerance ± 0.005 on x,y.

■ Electrical Characteristics (Tc=55°C)

Parameter	Min	Typ	Max	Unit
Nominal Current		350		mA
Forward Voltage ⁽¹⁾	36.4	39.1	41.8	V

Notes:

(1) The forward voltage tolerance is $\pm 3\%$, the characteristic is refer to value per chain.

■ Max Rating

Parameter	Min	Typ	Max	Unit
Current I _{max}			700	mA
Case Temperature T _c max			85	°C

■ Thermal Characteristic (350mA, Tc=55°C)

Parameter	Min	Typ	Max	Unit
Thermal Resistance Junction to heat sink		0.75		°C/W
Thermal Resistance Junction to solder pad ⁽¹⁾		17		°C/W

Notes:

(1) The thermal resistance, junction to solder pad, is per LED

■ Lifetime

Parameter	Nominal	Life ⁽¹⁾	Max ⁽²⁾
T _c (°C)	55	80	85
Current (mA)	350	600	700

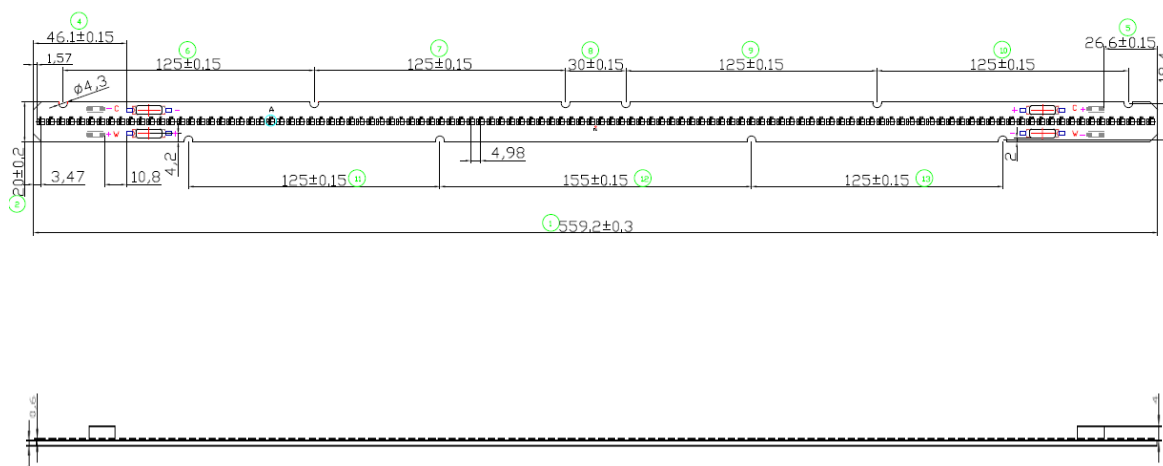
Notes:

(1) Value at which lifetime is specified. (max current for warranty)

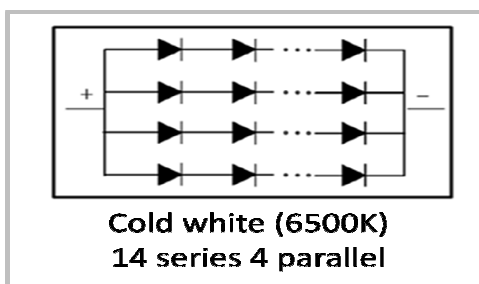
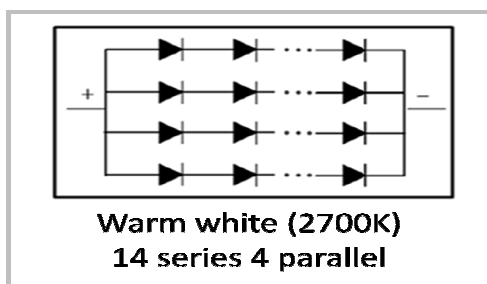
(2) Maximum value for operation.

■ Mechanical Characteristic

Parameter	Min	Typ	Max	Unit
Length	558.90	559.20	559.50	mm
Width	19.80	20.00	20.20	mm
Height (Exclude Connector)	0.85	1.00	1.15	mm
Height (Include Connector)	4.65	5.00	5.35	mm

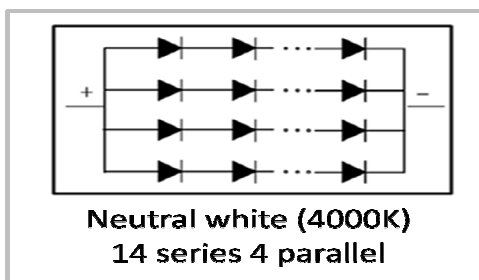
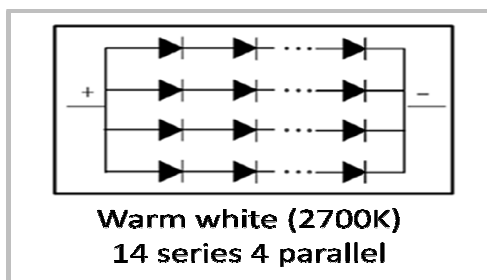


CRI80: 2700K & 6500K

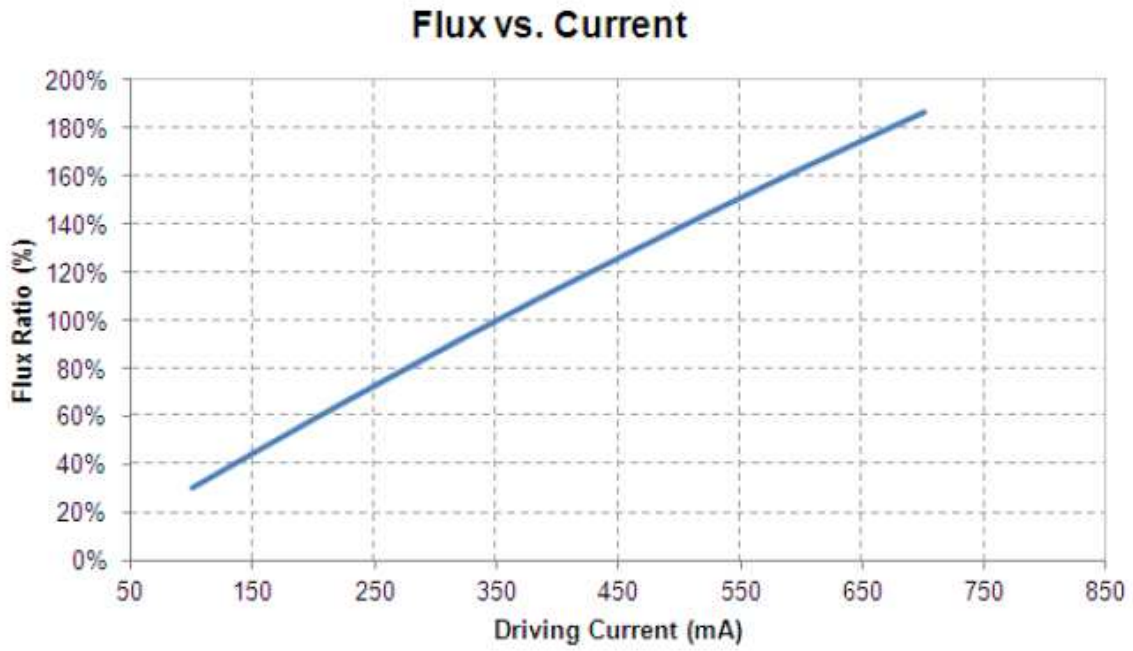


The electric circuit is 14 series 4 parallel.

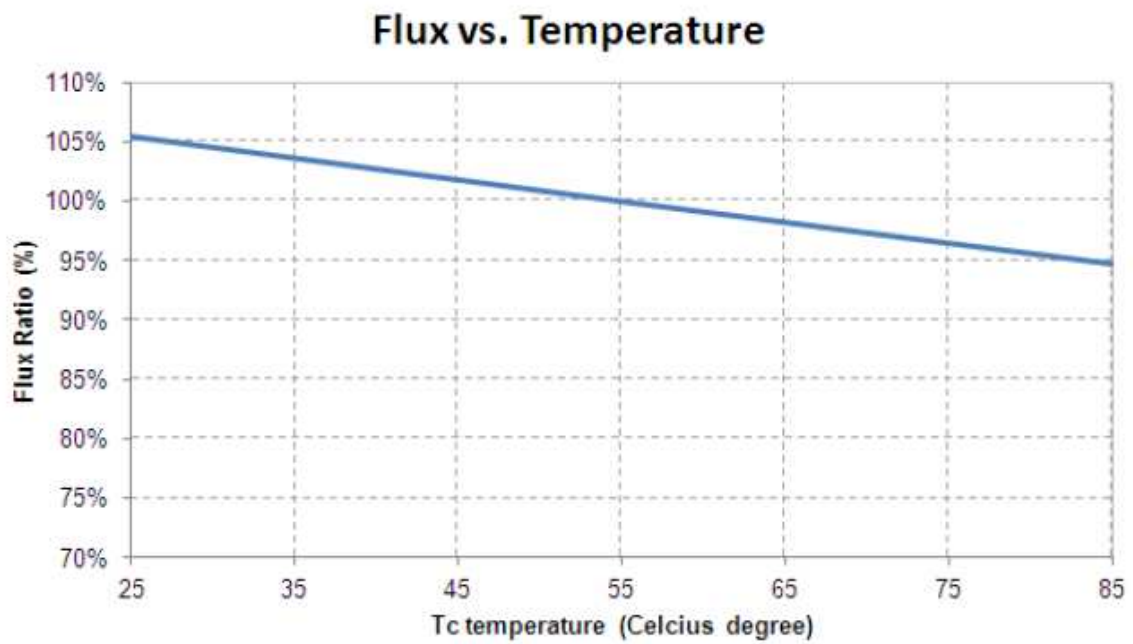
CRI90: 2700K & 4000K



■ Flux vs. Current



■ Flux vs. Temperature (Tc)



Revision History

LBL-BI-5620

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Date	Contents	Writer
2016.09.02	Product Specification version1	Jacqueline
2016.10.13	Product Specification version2	Jacqueline

Lextar Electronics Corp. reserves the right to modify the technical information or data without notification when product improved.