SURFACE MOUNT AXIAL TYPE LED LAMP SPECIFICATION

●COMMODITY: AXIAL TYPE LED PAGE: 2

●DEVICE NUMBER: BL-XD0361 VERSION: 1.2

●ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25°C)

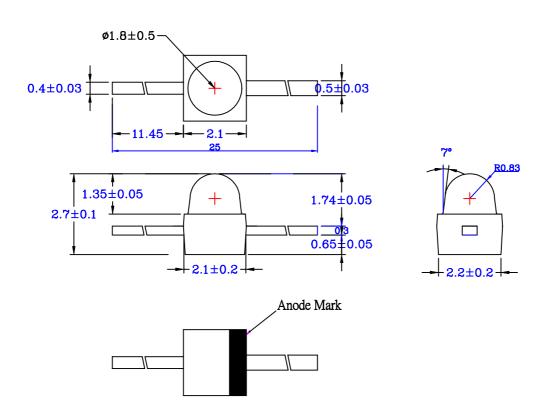
Chip				Absolute Maximum Rating				Electro-optical Data (At 20mA)			Viewing Angle
Peak Dominant			Lens								
Emitted Color	Wave Length	Wave Length	Appearance	Δλ	Pd	If	Peak	Vf	(V)	Iv Typ. (mcd)	$\begin{array}{c} 2\theta 1/2 \\ \text{(deg)} \end{array}$
	$\lambda p(nm)$	$\lambda d(nm)$		(nm)	(mW)	(mA)	If(mA)	Тур	Max	, ,	(deg)
Super Red	660	643	Water Clear	20	60	30	150	1.85	2.0	75.0	35

Remark: Viewing angle is the Off-axis angle at which the luminous intensity is half the axial luminous intensity.

●ABSOLUTE MAXIMUN RATINGS (Ta=25°C)

Reverse Voltage			5V
Reverse Current (-Vr=5V)			
Operating Temperature Range	-25°C	~	100°℃
Storage Temperature Range	-30°C	\sim	100°C

■PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters (inches).

- 2.Tolerance is \pm 0.25mm (0.01") unless otherwise specified.
- 3. Specifications are subject to change without notice.

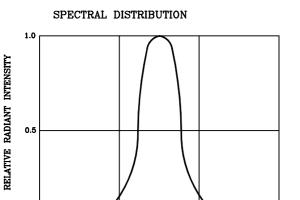
SURFACE MOUNT AXIAL TYPE LED LAMP SPECIFICATION

● COMMODITY: AXIAL TYPE LED LAMP

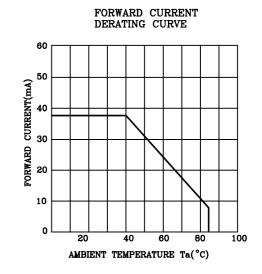
● DEVICE NUMBER: BL—XD0361 PAGE: 3

720

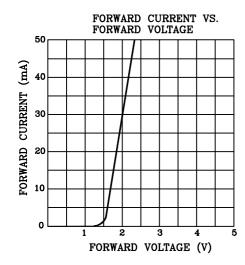
● ELECTRICAL AND OPTICAL CHARACTERISTICS(Ta=25°C)



680

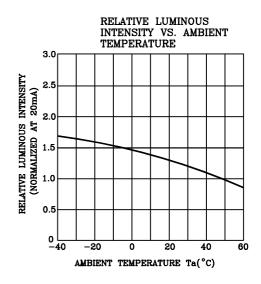


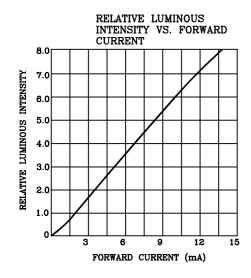
REVISION: 1.0

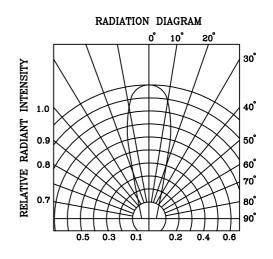


WAVELENGTH \ \ P(nm)

600







SURFACE MOUNT CHIP LED LAMP SPECIFICATION

RELIABILITY TEST

PAGE: 4
REVISION: 1.0

Classification	Test Item	Reference Standard	Test Conditions	Result
	Operation Life	MIL-STD-750:1026	Connect with a power If=20mA	0/20
		MIL-STD-883:1005	Ta=Under room temperature	
		JIS C 7021 :B-1	Test time=1,000hrs	
	High		Ta=+65°C±5°C	
	Temperature	MIL-STD-202:103B	RH=90%-95%	0/20
Endurance	High Humidity	JIS C 7021 :B-11	Test time=1,000hrs	0/20
Test	Storage			
Test	High	MIL-STD-883:1008	High Ta=+85°C±5°C	
	Temperature	JIS C 7021 :B-10	Test time=1,000hrs	0/20
	Storage	JIS C /021 .D-10		
	Low		Low Ta=-35°C±5°C	
	Temperature	JIS-C-7021 :B-12	Test time=1,000hrs	0/20
	Storage			
	Temperature	MIL-STD-202:107D	-35°C ~ +25°C ~ +85°C ~ +25°C	
	Cycling	MIL-STD-750:1051	60min 20min 60min 20min	0/20
		MIL-STD-883:1010	Test Time=5cycle	0/20
		JIS C 7021 :A-4		
	Thermal Shock	MIL-STD-202:107D	+85°C±5°C ~ -35°C±5°C	
Environmental Test		MIL-STD-750:1051	20min 20min	0/20
		MIL-STD-883:1011	Test Time=10cycle	
	Solder		Preheating:	
	Resistance	MIL-STD-202:201A	140° C -160°C ,within 2 minutes.	
		MIL-STD-750:2031	Operation heating:	0/20
		JIS C 7021 :A-1	235 °C (Max.), within 10	
			seconds.(Max.)	

JUDGMENT CRITERIA OF FAILURE FOR THE RELIABILITY

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
Forward voltage	$V_{F}(V)$	If=20mA	Over Ux1.2
Reverse current	Ir(uA)	Vr=5V	Over Ux2
Luminous intensity	Iv (mcd)	If=20mA	Below SX0.5

Note: 1.U means the upper limit of specified characteristics. S means initial value.

2.Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.

SURFACE MOUNT CHIP LED LAMP SPECIFICATION

PAGE: 5 **REVISION:** 1.0

1. **SOLDERING:**

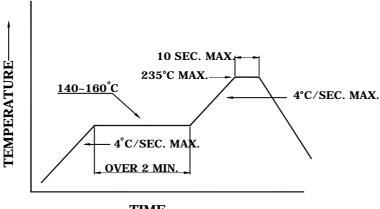
Manual Of Soldering

The temperature of the iron tip should not be higher than 300° C (572°F) and Soldering within 3 seconds per solder-land is to be observed.

Reflow Soldering

Preheating: 140° C~ 160° C± 5° C, within 2 minutes. Operation heating: 235° C (MAX.) within 10 seconds.(Max)

Gradual Cooling (Avoid quenching).



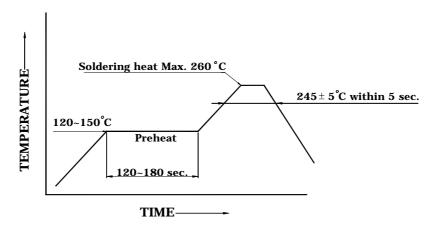
TIME-

DIP soldering (Wave Soldering)

Preheating: 120°C~150°C, within 120~180 sec.

Operation heating: $245^{\circ}\text{C}\pm5^{\circ}\text{C}$ within $5 \text{ sec.} 260^{\circ}\text{C}$ (Max)

Gradual Cooling (Avoid quenching).



2. **Handling:**

Care must be taken not to cause to the epoxy resin portion of BRIGHT LEDs while it is exposed to high temperature. Care must be taken not rub the epoxy resin portion of BRIGHT LEDs with hard or sharp article such as the sand blast and the metal hook