

# BRIGHT LED ELECTRONICS CORP.

## SURFACE MOUNT CHIP LED LAMP SPECIFICATION

●COMMODITY : SURFACE MOUNT CHIP LED LAMP

●DEVICE NUMBER : BL-HGE36A

PAGE: 2

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

REVISION: 1.2

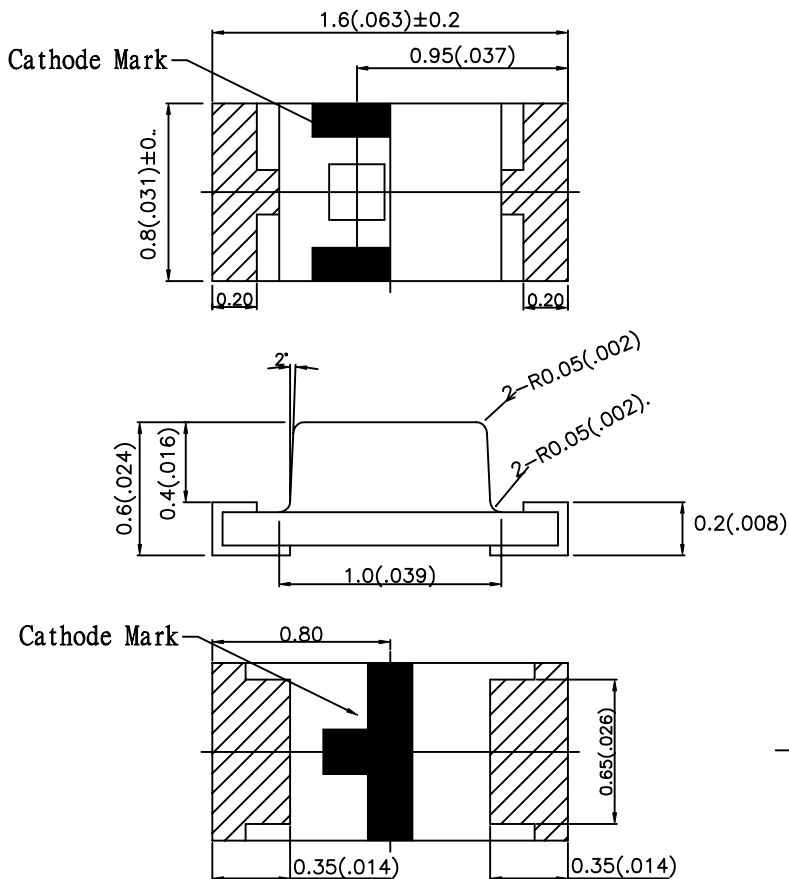
Chip			Lens Appearance	Absolute Maximum Rating				Electro-optical Data (At 20mA)				Viewing Angle 2θ 1/2 (deg)
Emitted Color	Peak Wave Length λ p(nm)	Dominant Wave Length λ d(nm)		Δ λ (nm)	Pd (mW)	If (mA)	Peak If (mA)	Vf(V)		Iv(mcd)		
								Typ.	Max.	Min	Typ.	
Super Yellow Green	570	571±5	Water Clear	30	100	30	100	2.0	2.6	18.5	35.0	120

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

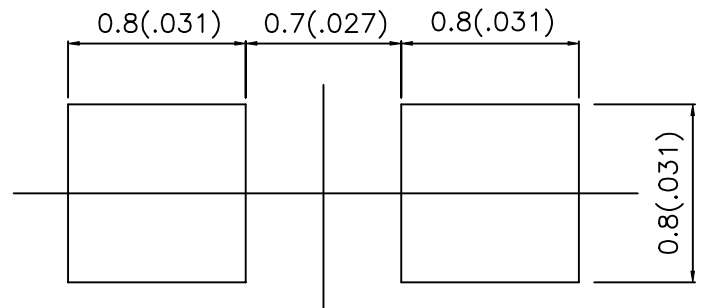
### ●ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Reverse Voltage .....	5V
Reverse Current (V <sub>R</sub> =5V) .....	≤100μA
Operating Temperature Range .....	-25°C ~ 80°C
Storage Temperature Range .....	-30°C ~ 85°C

### ●PACKAGE DIMENSIONS



For reflow soldering



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

2.Tolerance is ± 0.10mm (0.004) unless otherwise specified.

3.Specifications are subject to change without notice.

4.Condition for IFp is pulse of 1/10 duty and 0.1 Downloaded From [Oneyac.com](http://Oneyac.com)

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PAGE: 3

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REVISION: 1.0

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

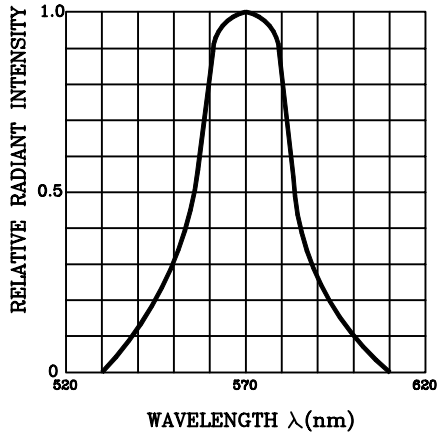


Fig.2 FORWARD CURRENT DERATING CURVE

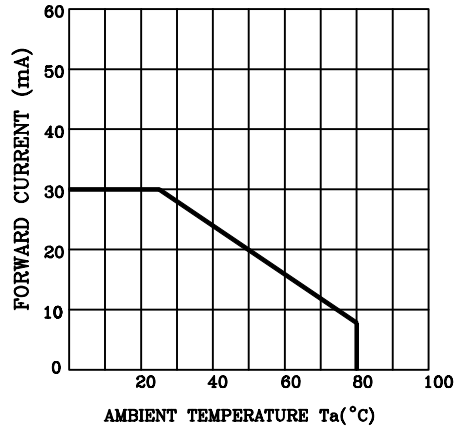


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

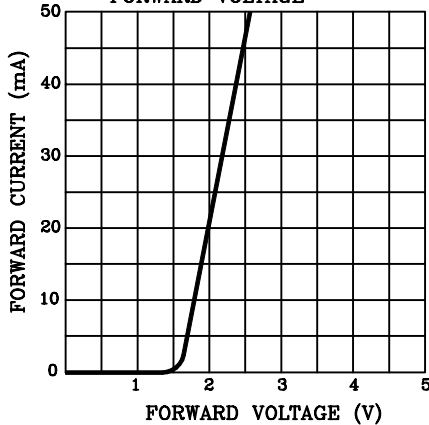


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

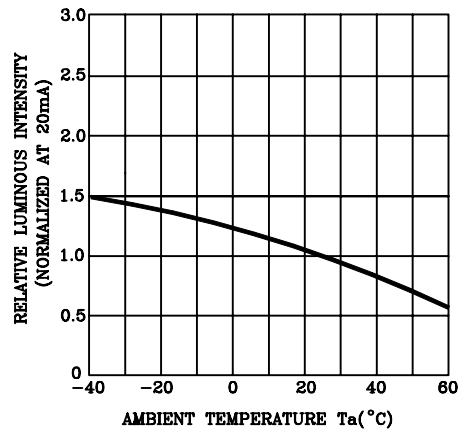


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

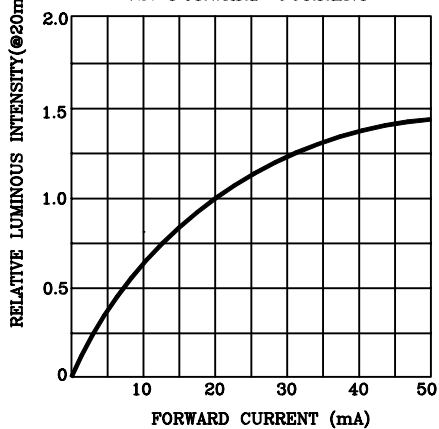
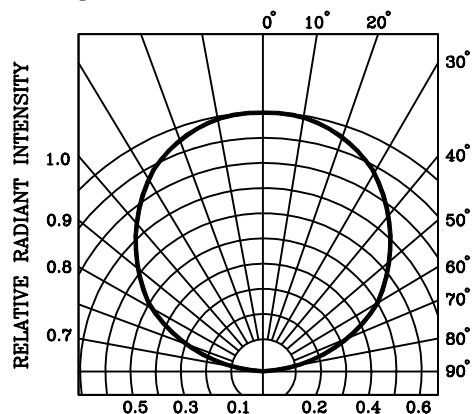


Fig.6 RADIATION DIAGRAM



# BRIGHT LED ELECTRONICS CORP.

## SURFACE MOUNT CHIP LED LAMP SPECIFICATION

● COMMODITY : SURFACE MOUNT CHIP LED LAMP

● DEVICE NUMBER : BL-HGE36A-TRB

PAGE: 4

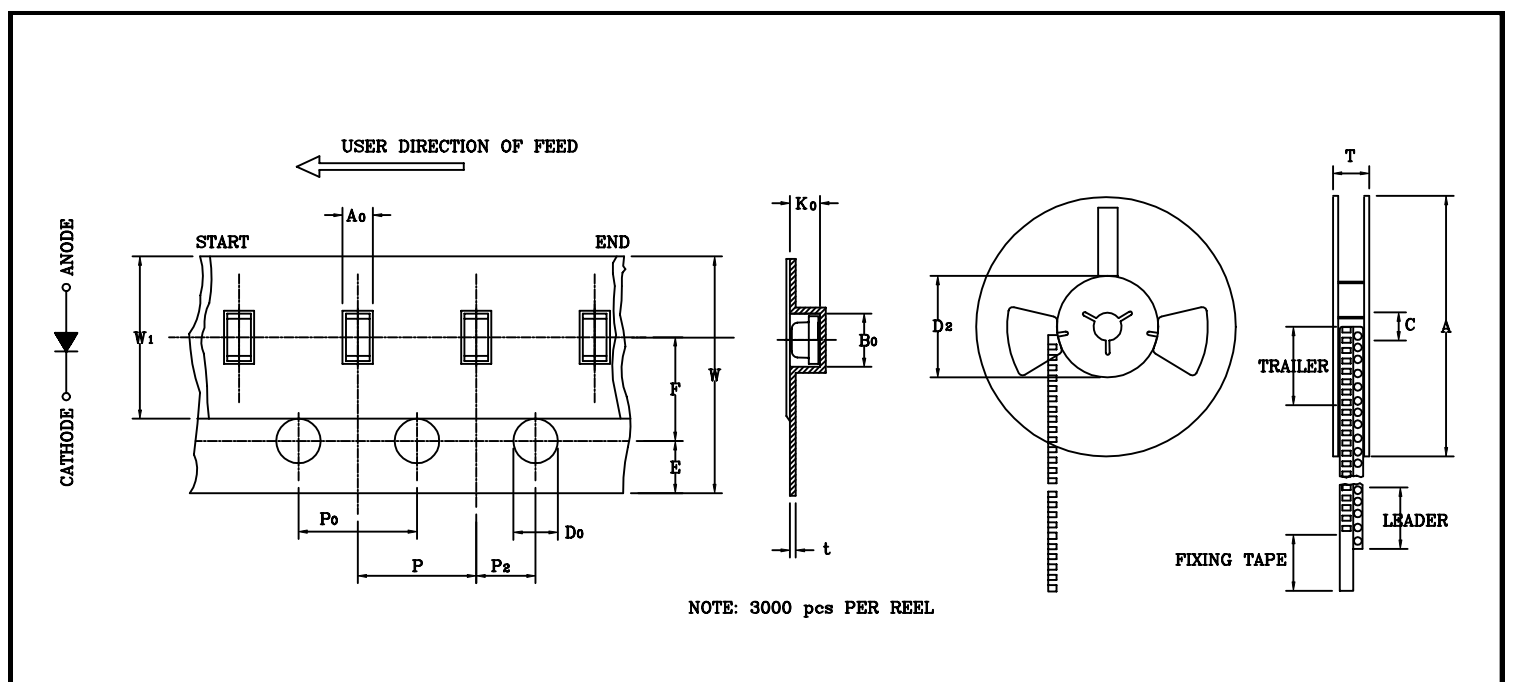
● -TRB: TAPPING & REELING, BLACK CAMRIER TAPE, ESD RESISTED.

REVISION: 1.1

● TAPPING AND PACKAGING SPECIFICATION

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

ITEM	SYMBOL	SPECIFICATION			
		Minimum		Maximum	
		mm	inch	mm	inch
Tape Feed Hole Diameter (DIA)	D <sub>0</sub>	1.40	0.055	1.60	0.063
Feed Hole Location	E	1.65	0.064	1.85	0.073
Centers Line Dimensions Length Direction	F	3.45	0.135	3.55	0.139
Compartment Depth	K <sub>0</sub>	0.65	0.026	0.075	0.030
Compartment Pitch	P	3.90	0.153	4.10	0.161
Sprocket Hole Diameter	P <sub>0</sub>	3.90	0.153	4.10	0.161
Centers Line Dimensions Length Direction	P <sub>2</sub>	1.95	0.076	2.05	0.080
Carrier Tape Thickness	t	—	—	0.30	0.012
Carrier Tape Width	W	7.70	0.303	8.30	0.326
Flange Diameter	A	178.0	7.008	180.0	7.087
Hub Spindle Hole	C	12.50	0.492	13.50	0.531
Hub Diameter	D <sub>2</sub>	70.00	2.755	72.00	2.830
Fixing Tape Width	W <sub>1</sub>	5.25	0.206	5.35	0.210
Flange Space Between Flanges	T	12.50	0.492	13.50	0.531
Compartment Length	A <sub>0</sub>	0.85	0.033	0.95	0.037
Compartment Width	B <sub>0</sub>	1.70	0.067	1.80	0.071



# BRIGHT LED ELECTRONICS CORP.

## SURFACE MOUNT CHIP LED LAMP SPECIFICATION

### RELIABILITY TEST

PAGE: 5

REVISION: 1.0

Classification	Test Item	Reference Standard	Test Conditions	Result
Endurance Test	Operation Life	MIL-STD-750:1026 MIL-STD-883:1005 JIS C 7021 :B-1	Connect with a power $I_f=20\text{mA}$ $T_a$ =Under room temperature Test time=1,000hrs	0/20
	High Temperature High Humidity Storage	MIL-STD-202:103B JIS C 7021 :B-11	$T_a=+65^\circ\text{C}\pm 5^\circ\text{C}$ RH=90%-95% Test time=240hrs	0/20
	High Temperature Storage	MIL-STD-883:1008 JIS C 7021 :B-10	High $T_a=+85^\circ\text{C}\pm 5^\circ\text{C}$ Test time=1,000hrs	0/20
	Low Temperature Storage	JIS-C-7021 :B-12	Low $T_a=-35^\circ\text{C}\pm 5^\circ\text{C}$ Test time=1,000hrs	0/20
Environmental Test	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	$-35^\circ\text{C} \sim +25^\circ\text{C} \sim +85^\circ\text{C} \sim +25^\circ\text{C}$ 60min 20min 60min 20min Test Time=5cycle	0/20
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	$-35^\circ\text{C}\pm 5^\circ\text{C} \sim +85^\circ\text{C}\pm 5^\circ\text{C}$ 20min 20min Test Time=10cycle	0/20
	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	Preheating : $140^\circ\text{C} - 160^\circ\text{C}$ , within 2 minutes. Operation heating : $235^\circ\text{C}$ (Max.), within 10seconds. (Max.)	0/20

### JUDGMENT CRITERIA OF FAILURE FOR THE RELIABILITY

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
Forward voltage	$V_F$ ( V )	$I_f=20\text{mA}$	Over $U_x1.2$
Reverse current	$I_r$ ( $\mu\text{A}$ )	$V_r=5\text{V}$	Over $U_x2$
Luminous intensity	$I_v$ ( mcd )	$I_f=20\text{mA}$	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.

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PAGE: 6

REVISION: 1.0

### 1. SOLDERING:

#### ● Manual Of Soldering

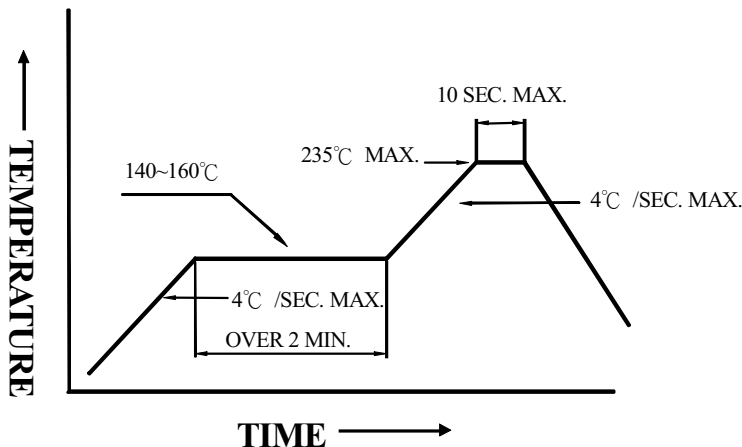
The temperature of the iron tip should not be higher than 300°C (572°F) and Soldering within 3 seconds per solder-land is to be observed.

#### ● 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).

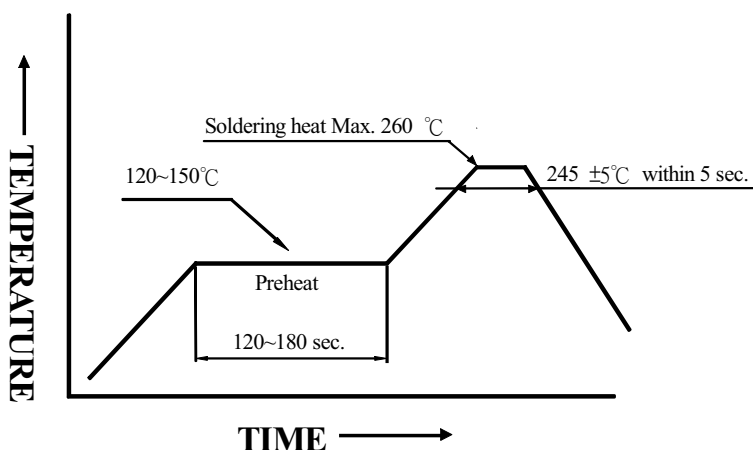


#### ● DIP soldering (Wave Soldering)

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

Operation heating : 245°C±5°C within 5 sec. 260°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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>BRT\(佰鸿工业\)](#)