

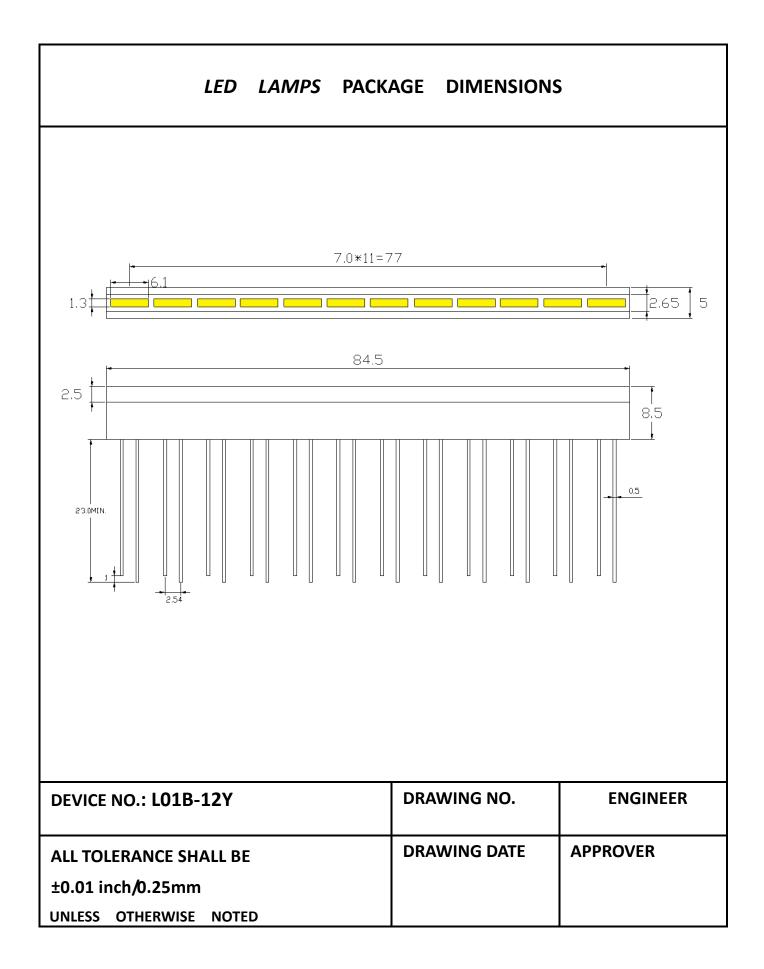
APPROVAL SHEET

TYPE NO.: <u>L01B-12</u>	2Y		
PACKAGE SIZE:	1.3x6.1mm Rectangu	lar Type With Housing LED Lamp	
DICE MATERIAL:	GaAsP on GaP	PEAK WAVE LENGTH(nm)587	
EMITTED COLOR:	Yellow	VIEWING ANGLE (deg): <u>120</u>	
LENS COLOR:	Yellow Diffused	IV(mcd):12	-

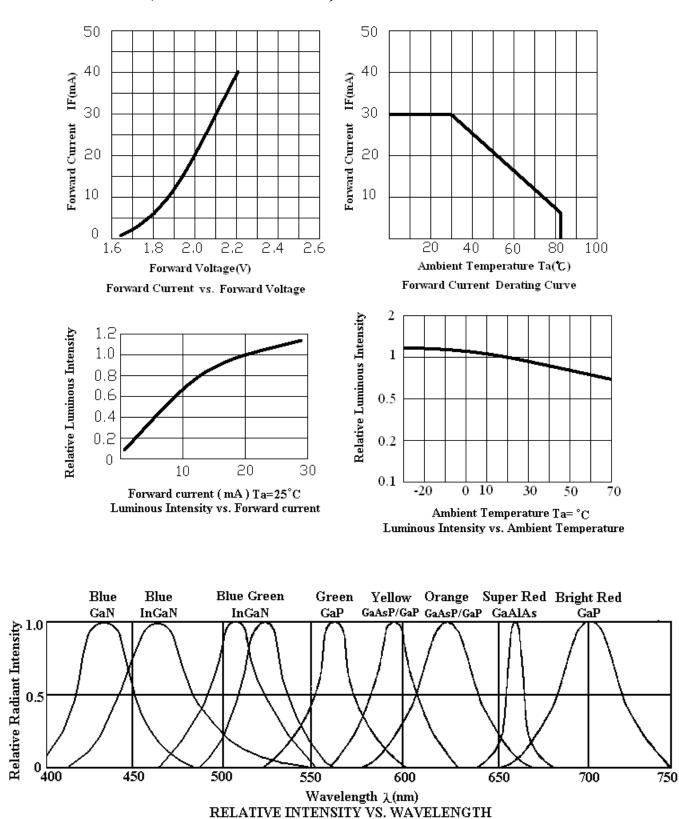
ELECTRICAL / OPTICAL CHARACTERISITICS AT Ta = 25°C						
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST
Luminous Intensity	IV	10	12	20	mcd	
Viewing Angle	201/2		120		deg	
Peak Emission Wavelength	λр		587		nm	
Dominant	λD	585	590	595	nm	IF = 20mA
Wavelength						
Spectral Line Half-Width	Δλ		35		nm	
Forward Voltage	VF	1.7	2.0	2.6	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty1/10 @1KHZ)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

• **ABSOLUTE MAXIMUM RATINGS** : (Ta = 25°c)

Reverse Voltage	: 5 Volt	
Reverse Current	: 10 uA (VR=5V)	
Operating Temperature Range	: -40°C TO 85°C	
Storage Temperature Range	: -40°C TO 100°C	
Lead Soldering Temperature Range		
【1.6 mm (1/16 inch) from body】	: 260°C For 5 Seconds	



Typical Electro-Optical Characteristics Curves

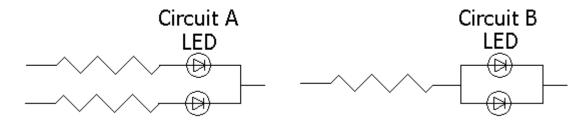


Type No. : L01B-12Y

NO.	Item Test Conditions		Test Time/ Cycle	Sample Size	Ac/Re
1	DC Operating Life	Temperature:25°C IF:20mA	1000HRS	20PCS	0/1
2	High Temperature High Humidity	Temperature:85°C 85%RH	1000HRS	20PCS	0/1
3	High Temperature Storage	Temperature:100°C	1000HRS	20PCS	0/1
4	Low Temperature Storage	Temperature: - 40°C	1000HRS	20PCS	0/1
5	Temperature Cycling	85°C~ 25°C~ - 35°C 15min~ 5min~ 15min	15Cycles	20PCS	0/1
6	Thermal Shock	85°C~ 25°C~ - 10°C 5min~ 10sec ~ 5min	15Cycles	20PCS	0/1
7	Solder Heat	Temperature:260°C±5°C	10SEC.	20PCS	0/1

1. Drive Method

LED is current-operated device. In order to ensure intensity uniformity on multiple LEDs connected in parallel in a application, it is recommended that a current limiting resistor be incorporated in the drive circuit.



- (a) Circuit A it is recommended circuit.
- (b) Circuit B the brightness of each LED might appear different due to the differences in the I-V characteristics of those LEDs.

2. Over-current-proof

Customer must apply resistors for protection , otherwise slight voltage shift will cause big current change(Burn out will happen).

3. Storage

The Storage Temperature and RH are: $5^{\circ}C \sim 30^{\circ}C$, RH 60% or less. Once the package is opened, the products should be used with in a week. Otherwise, they should be kept in moisture proof package with moisture absorbent material (silica gel). we suggest our customers to use our products within a year. If the moisture absorbent material (silica gel) has faded away or the LEDs exceeded the storage time , baking treatment should be performed using the following conditions. Baking treatment: more than 24 hours at $60^{\circ}C \pm 5^{\circ}C$.

4. Electrostatic Discharge (ESD)

Static electricity or surge voltage will damage the LEDs

Suggestions to prevent ESD damage:

Use of a conductive wrist band or ante-electrostatic glove when handing these LEDs

All devices, equipment, and machinery must be properly grounded.

Work tables storage racks, etc. should be properly grounded

In the events of manual working in process, make sure the devices are well protected from ESD at any time.

5. Others

(a) If want to have the uniform luminance and color, please use the same binning number,

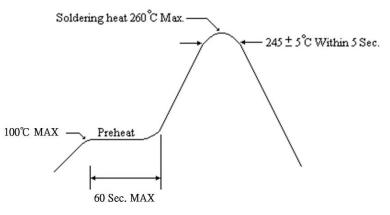
and avoid using intermix to cause the differences of luminance and color.

(b) The appearance and specifications of the product may be modified for improvement without prior notice.

6. Soldering

Recommended soldering condition as shown below:

Soldering heat (DIP)



Soldering Iron

Temperature at tip of iron : 350°C Max. Soldering Time: 3 sec. ± 1 sec. (one time only)

If temperature is higher, time should be shorter