

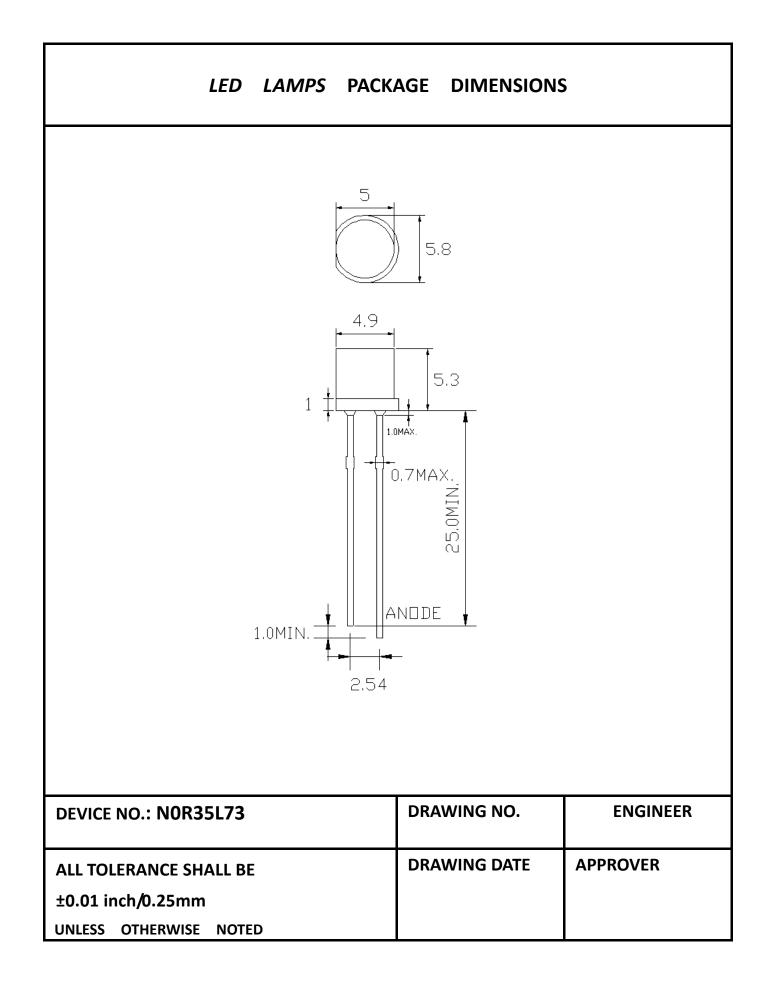
APPROVAL SHEET

CUSTOMER:			
TYPE NO.: NOR35	L73		
PACKAGE SIZE:	2.54mm x 5.0mm Tomb	stone LED Lamp	
DICE MATERIAL:	AlinGaP	PEAK WAVE LENGTH(nm) 653	
EMITTED COLOR:	Ultra Red	VIEWING ANGLE (deg): <u>30</u>	
LENS COLOR:	Red Diffused	IV(mcd):120	

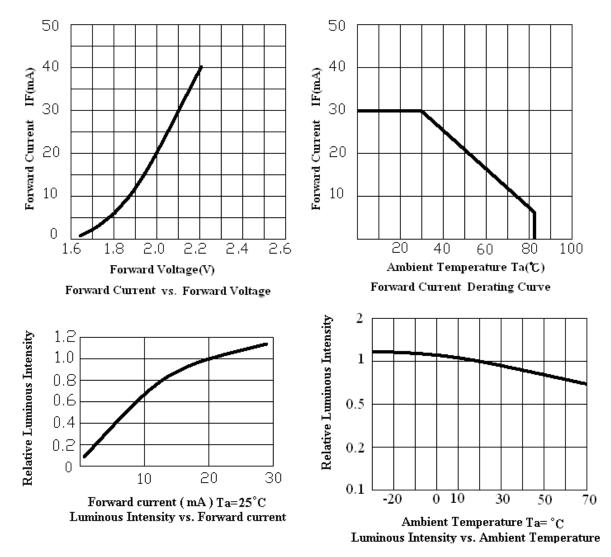
ELECTRICAL / OPTICAL CHARACTERISITICS AT Ta = 25°C							
PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNIT	TEST	
Luminous Intensity	IV	80	120	150	mcd		
Viewing Angle	201/2		30		deg		
Peak Emission Wavelength	λp		653		nm		
Dominant	λD	632	637	643	nm	IF = 20mA	
Wavelength							
Spectral Line Half-Width	Δλ		19		nm		
Forward Voltage	VF	1.7	1.9	2.4	V		
Power Dissipation	Pd			85	mW		
Peak Forward Current (Duty1/10 @1KHZ)	IF (Peak)			100	mA		
Recommended Operating Current	IF (Rec)		20		mA		

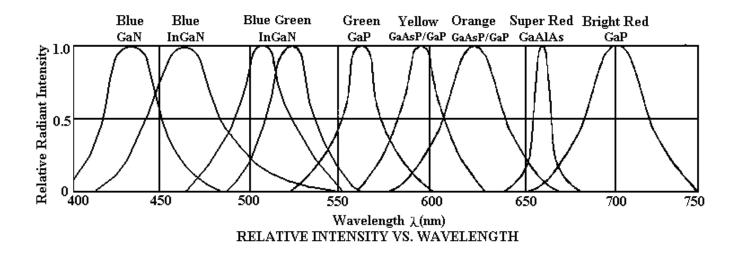
• ABSOLUTE MAXIMUM RATINGS : (Ta = 25°c)

: 5 Volt	
: 10 uA (VR=5V)	
: -40°C TO 85°C	
: -40°C TO 100°C	
:260°C For 5 Seconds	
-	: 10 uA (VR=5V) : -40°C TO 85°C : -40°C TO 100°C







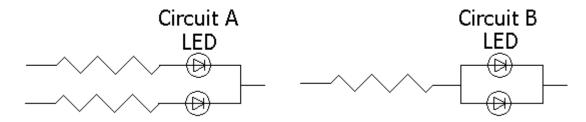


Type No. :N0R35L73

NO.	ltem	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°C ~ 30°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°C \pm 5°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,

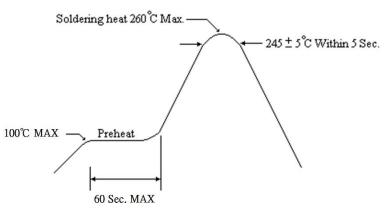
and avoid using intermix to cause the differences of luminance and color.

(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