



**PARA LIGHT ELECTRONICS CO., LTD.**

4F, No.1, Lane 93, Chien Yi Road, Chung Ho City, Taipei, Taiwan, R.O.C.

Tel: 886-2-2225-3733

Fax: 886-2-2225-4800

E-mail: [para@para.com.tw](mailto:para@para.com.tw)

<http://www.para.com.tw>

**DATA SHEET**

**PART NO. : L-819EGW**

**REV : A / 0**

CUSTOMER'S APPROVAL : \_\_\_\_\_

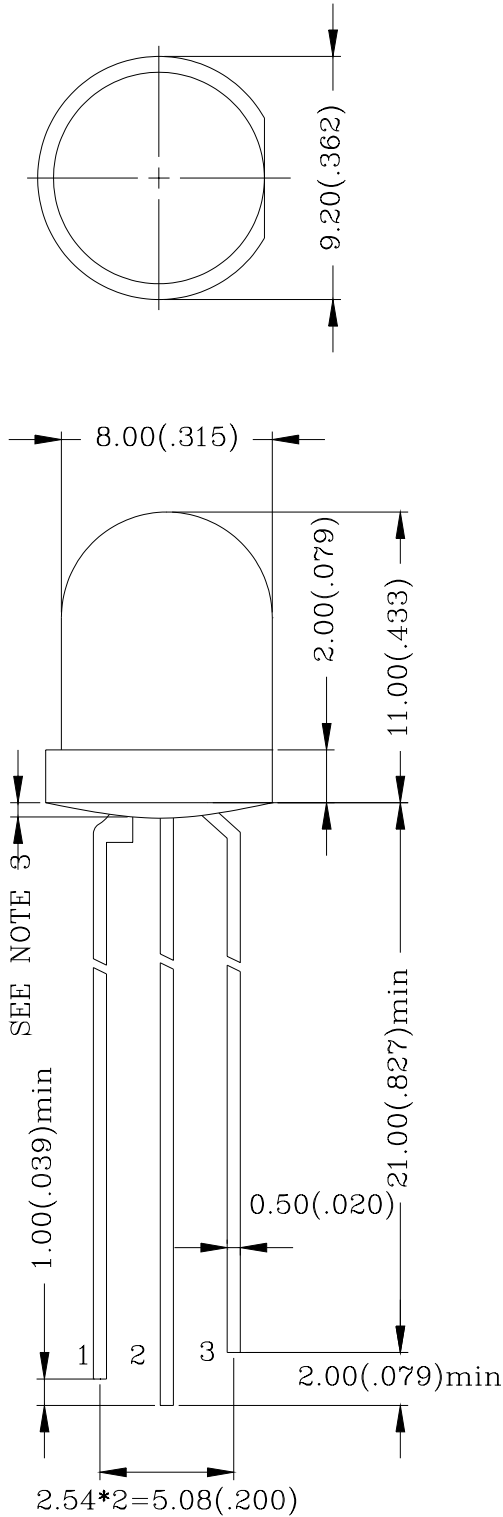
DCC : \_\_\_\_\_

DRAWING NO. : DS-38-03-0055

DATE : 2003-09-04

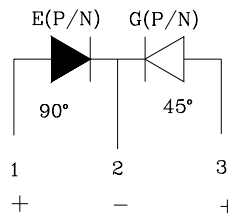
Page : 1

PACKAGE DIMENSIONS



Note:

1. All Dimensions are in millimeters.
2. Tolerance is  $\pm 0.25\text{mm}$  (0.010 ") Unless otherwise specified.
3. Protruded resin under flange is 1.5mm (0.059 ") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specification are subject to change without notice





# 8.0 mm DIA LED LAMP

## L-819EGW

REV:A / 0

### FEATURES

- \* 8.0mm DIA LED LAMP.
- \* LOW POWER CONSUMPTION.
- \* I.C. COMPATIBLE.
- \* TWO CHIPS ARE MATCHED FOR UNIFORM LIGHT OUTPUT.
- \* LONG LIFE SOLID STATE RELIABILITY

### CHIP MATERIALS

- \* Dice Material : GaAsP/GaP&GaP/GaP
- \* Light Color : MULTI COLOR(HI.EFFI RED & YELLOW GREEN)
- \* Lens Color : WHITE DIFFUSED

### ABSOLUTE MAXIMUM RATING:(Ta=25°C)

SYMBOL	DESCRIPTION	HI.EFFI RED	YELLOW GREEN	UNIT
PAD	Power Dissipation Per Chip	85	85	mW
VR	Reverse Voltage Per Chip	5	5	V
IF	Average Forward Current Per Chip	30	30	mA
IPF	Peak Forward Current (Duty=0.1,1KHZ) Per Chip	120	120	mA
-	Derating Linear From 25°C Per Chip	0.4	0.4	mA/°C
Topr	Operating Temperature Range	-25°C to 85°C		
Tstg	Storage Temperature Range	-40°C to 85°C		

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 260°C±5°C For 5 Seconds

### ELECTRO-OPTICAL CHARACTERISTICS:(Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage	IF=20mA	Hi.effi Red	2.1	2.8	V
			Yellow Green	2.2	2.8	V
IR	Reverse Current	VR=5V	Hi.effi Red		100	µA
			Yellow Green		100	µA
λD	Dominant Wavelength	IF=20mA	Hi.effi Red	622		nm
			Yellow Green	570		nm
Δλ	Spectral Line Half-Width	IF=20mA	Hi.effi Red	35		nm
			Yellow Green	30		nm
2θ1/2	Half Intensity Angle	IF=20mA	Hi.effi Red	140		deg
			Yellow Green	140		deg
IV	Luminous Intensity	IF=20mA	Hi.effi Red	25		mcd
			Yellow Green	20		mcd

