



PARA LIGHT ELECTRONICS CO., LTD.

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DATA SHEET

PART NO. : L-819GYW

REV : A / 0

CUSTOMER'S APPROVAL : _____

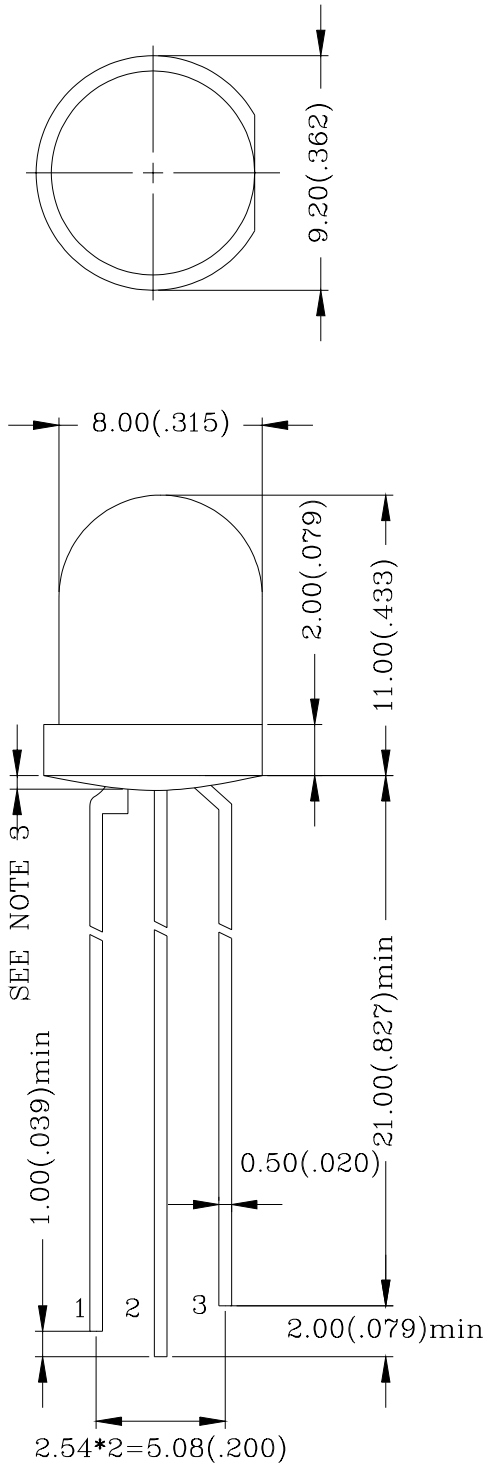
DCC : _____

DRAWING NO. : DS-38-03-0044

DATE : 2003-07-07

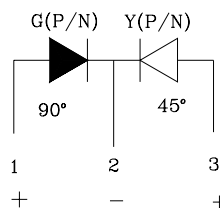
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PACKAGE DIMENSIONS



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



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 : GaP/GaP&GaAsP/GaP
- * Light Color : MULTICOLOR(YELLOW GREEN&YELLOW)
- * Lens Color : WHITE DIFFUSED

ABSOLUTE MAXIMUM RATING:(Ta=25°C)

SYMBOL	DESCRIPTION	YELLOW GREEN	YELLOW	UNIT
PD	Power Dissipation	85	85	mW
VR	Reverse Voltage	5	5	V
IF	Average Forward Current	30	30	mA
IPF	Peak Forward Current (Duty=0.1,1KHZ)	120	80	mA
-	Derating Linear From 25°C	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	Yellow Green	2.2	2.8	V
			Yellow	2.15	2.8	V
IR	Reverse Current	VR=5V	Yellow Green		100	µA
			Yellow		100	µA
λD	Dominant Wavelength	IF=20mA	Yellow Green	570		nm
			Yellow	590		nm
Δλ	Spectral Line Half-Width	IF=20mA	Yellow Green	30		nm
			Yellow	35		nm
2θ1/2	Half Intensity Angle	IF=20mA	Yellow Green	140		deg
			Yellow	140		deg
IV	Luminous Intensity	IF=20mA	Yellow Green	20		mcd
			Yellow	15		mcd

