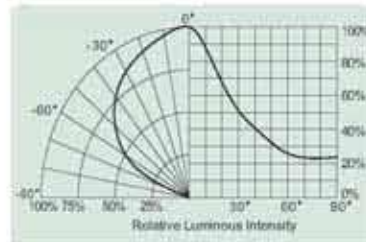
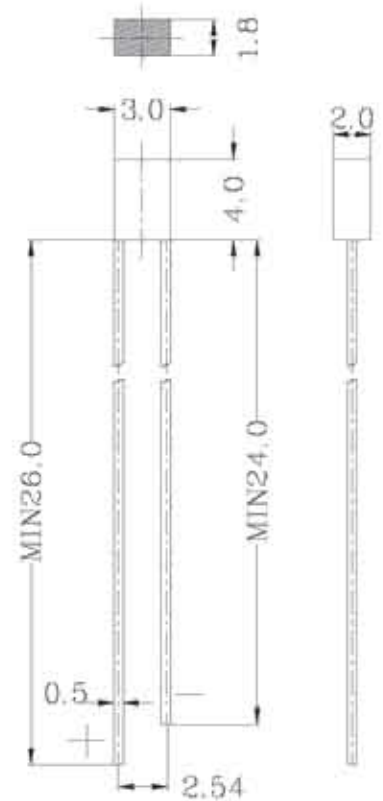


**1.8x3.0x4.0mm Rectangular Lamp**

**Characters**

- Viewing angle 120°
- For LED Screen
- UV resistant epoxy

**Directive Characteristics**

**Package Outlines (Unit:mm)**

 General Tolerance: ±0.2  
 Unless note otherwise

**Absolute Maximum Ratings (Ta=25°C)**

Parameter	Symbol	Value		Unit
		Green/Blue	Red	
Power Dissipation	$P_D$	100	125	mW
DC forward Current	$I_F$	30	50	mA
Pulsed Forward Current	$I_{FP}$	100	150	mA
Reverse Voltage	$V_R$	5	5	V
Operating Temperature	$T_{opr}$	-30~+80		°C
Storage Temperature	$T_{stg}$	-40~+100		°C

\* Duty 1/10 Pulse Width 0.1ms

**Electrical Optical Characteristics (Ta=25°C)**

Part Number	Material	Chip			Lens Type	IF(mA)	VF(V)		IV(mcd)	
		$\Delta p$ (nm)		Emitted Color			Min	Max	Min	Max
		Min	Max							
RL620N-UR514S/S1	AlGaInP/GaAs	625	635	Ultra Red	Diffused	20	1.7	2.8	100	300
RL620N-GH714D/S1	InGaN/GaN	515	525	Pure Green	Diffused	20	3.0	3.8	300	535
RL620N-CB714D/S1	InGaN/GaN	465	475	Blue	Diffused	20	3.0	3.8	100	300

**Luminous Intensity Rank**

Luminous Intensity(mcd)					
Ultra Red		Pure Green		Blue	
Rank	Data	Rank	Data	Rank	Data
X	100-150	E	300-400	X	100-150
X1	150-215	E1	350-460	X1	150-215
A	210-300	F1	400-535	A	215-300

**Package**

 Bulk-----500Pcs/bag  
 Taping-----3000Pcs/reel

**Precautions in handling**

1. When soldering, leave 2.0mm of minimum clearance between the resin and the soldering point.
2. Blue, Green and White products are so sensitive to ESD, that users required to handle with care.

## Reliability Test

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Operating Life	Ta=25°C,IF=20mA	1000 Hrs	76	0/1
2	Thermal Shock	-10°C(5min)→(10sec)→+100°C(5min)	100 Cycles	76	0/1
3	Temperature ycle	-40°C(30min)→(5min)→+85°C(30min)	100 Cycles	76	0/1
4	High Temp./ High Humi. Test	85°C/85%RH	1000 Hrs	76	0/1
5	High Temperature Storage	Ta=100°C	1000 Hrs	76	0/1
6	Low Temperature Storage	Ta= - 40°C	1000 Hrs	76	0/1
7	Soldering Heat	260°C ± 5°C	5 Seconds	76	0/1

## Typical Electrical / Optical Characteristics Curves 25°C Ambient Temperature Unless Otherwise Noted)

