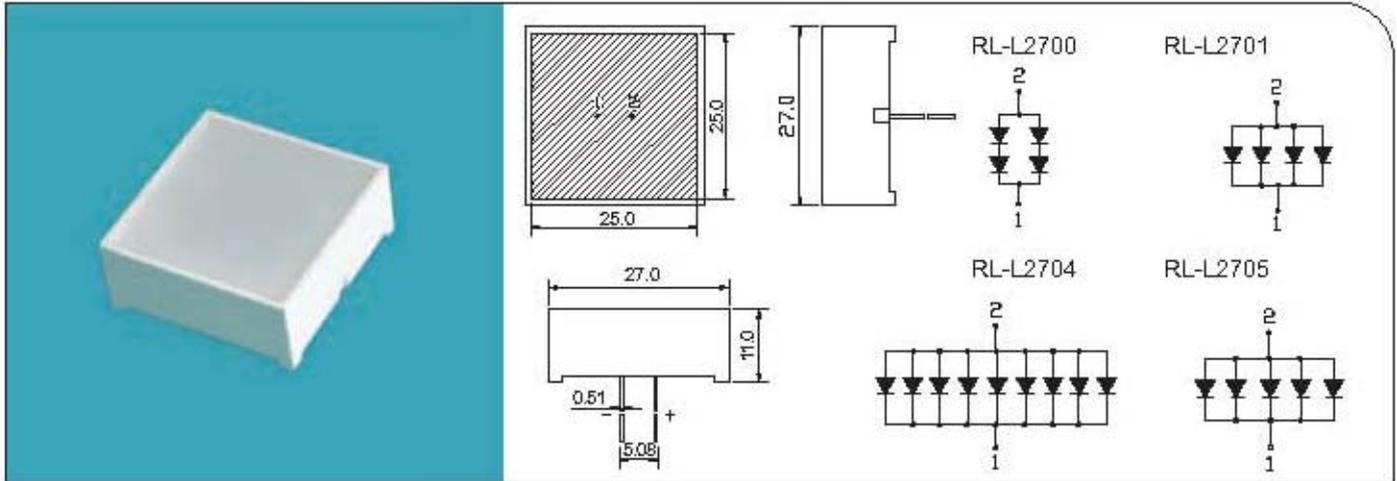


**27X27mm Light Bar Display**


| Part Number | Chip      |               |                       | Lens Type | VF(V)         |     |          | IV(ued) |     | C.C.<br>Or<br>C.A. |      |
|-------------|-----------|---------------|-----------------------|-----------|---------------|-----|----------|---------|-----|--------------------|------|
|             | Material  | Emitted Color | $\Delta p(\text{nm})$ |           | Min           | Max | at IF=mA | Min     | Max |                    |      |
|             |           |               | Min                   |           |               |     |          |         |     |                    | Max  |
| RL-L2705SWD | GaAlAs    | SuperRed      | 635                   | 645       | Red Diffused  | 1.5 | 2.4      | 20      | 550 | 3240               | C.A. |
| RL-L2704OWW | GaAsP/GaP | Orange        | 625                   | 635       | Diffused      | 1.7 | 2.8      | 20      | 240 | 1080               | C.A. |
| RL-L2701YWW | GaAsP/GaP | Yellow        | 585                   | 595       | Diffused      | 1.7 | 5.6      | 20      | 190 | 700                | C.A. |
| RL-L2700GWD | GaP       | YellowGreen   | 565                   | 575       | GreenDiffused | 3.4 | 5.6      | 20      | 500 | 2830               | C.A. |
| RL-L2700BWW | InGaN     | Blue          | 465                   | 475       | Diffused      | 2.8 | 3.8      | 20      | 610 | 1650               | C.A. |

**Absolute Maximum Ratings at Ta=25°C**

| Parameter                               | Symbol | MAX. Rating | Unit    |
|---|--------|-------------|---------|
| Power Dissipation                       | Pd     | 100         | mW      |
| Peak forward current (10 $\mu$ s Pulse) | IFM    | 100         | mA      |
| Reverse Current                         | IR     | 100         | $\mu$ A |
| Continuous Forward Current              | IF     | 10~20       | mA      |
| Operating Temperature                   | Topr   | -40~+85     | °C      |
| Storage Temperature                     | Tstg   | -40~+85     | °C      |

Lead Soldering Temperature: 260°C For 5 SEC

**FEATURES:**

- ◆ Low power consumption
- ◆ Low current operation
- ◆ Excellent character appearance
- ◆ Easy mounting on P.C. boards or sockets
- ◆ I.C. compatible
- ◆ Mechanically rugged
- ◆ Standard:gray face,white segment
- ◆ RoHs compliant
- ◆ Various colors and lens types available

**Note:** 1.Absolute maximum ratings Ta=25°C.

2.Tolerance of measurement of forward voltage  $\pm 0.1V$ .

3.Tolerance of measurement of peak Wavelength  $\pm 2.0\text{nm}$ .

4.Tolerance of measurement of luminous intensity  $\pm 15\%$ .

5.All dimensions are in millimeters

## Reliability Test and Test Items And Result

| 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 Cycle                  | -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)

