



EXCEED PERSEVERANCE ELECTRONIC INDUSTRY CO., LTD.

深圳市超毅光电子有限公司

1.0" Single Digit Display.

Part Number:

RL-S1010GDBW
RL-S1020SBRW

RL-S1010YCBW
RL-S1020RCBW

RL-S1020OCAW

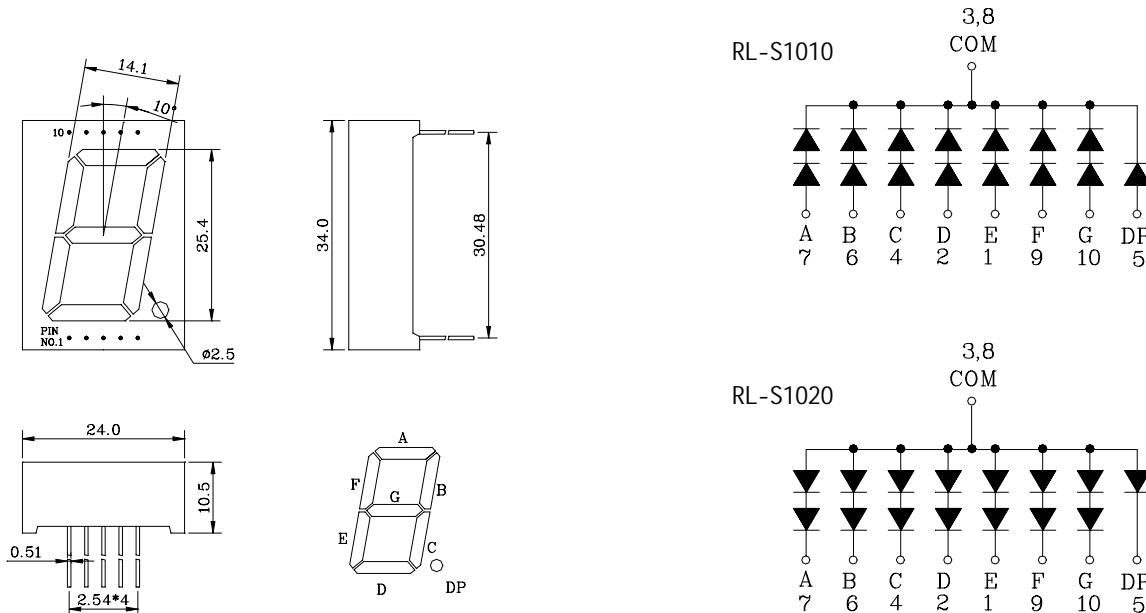
Features

- 1.LOW POWER CONSUMPTION.
- 2.RELIABLE AND RUGGED.
- 3.EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- 4.SUITABLE FOR LEVEL INDICATOR.
- 5.I.C COMPATIBLE.
- 6.LONG LIFE-SOLIDSTATE RELIABILTY.

Notes:

- 1.All dimensions are in millimeters (inches)
- 2.Tolerance is $\pm 0.25(0.01'')$ unless otherwise niter
- 3.Lead spacing is measured where the lead emerge package
- 4.Speciflcations are subject to change without notice

Package Dimensions & Internal Circuit Diagram.



Selection Guide

| Part NO. | Chip | | | Vf (V) | | | Face Color | C.C Or CA |
|--------------|-----------|---------------|-----------------|--------|------|----------|------------|-----------------|
| | Material | Emitted Color | Δp (nm) | Typ. | Max | At IF=mA | | |
| RL-S1010GDBW | GaP | Yellow Green | 570 | 1800 | 2700 | 20 | Black | C.C. |
| RL-S1010YCBW | GaAsP/GaP | Yellow | 585 | 860 | 1300 | 20 | Black | C.C |
| RL-S1020OCAW | GaAsP/GaP | Orange Red | 630 | 1100 | 1650 | 20 | Gray | C.A. |
| RL-S1020SBRW | GaAlAs | Super Red | 660 | 2470 | 3710 | 20 | Red | C.A. |
| RL-S1020RCBW | GaP/GaP | Bight Red | 700 | 180 | 270 | 20 | Black | C.A. |

1.All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01'')$ unless otherwise noted.

2.Specifications are subject to change without notice.



EXCEED PERSEVERANCE ELECTRONIC INDUSTRY CO., LTD.

深圳市超毅光电子有限公司

Electrical/Optical characteristics at TA=25°C.

| Symbol | Parameter | Device | Type. | Max. | Units | Test Conditions |
|------------------------|-----------------------|---|---------------------------------|---------------------------------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Yellow Green Yellow Orange Red Super Red Bright Red | 570 585 630 660 700 | | nm | IF-20mA |
| λ_D | Dominate Wavelength | Yellow Green Yellow Orange Red Super Red Bright Red | 560 580 610 640 690 | | nm | IF-20mA |
| $\Delta \lambda_{1/2}$ | Spectral Line Halfwit | Yellow Green Yellow Orange Red Super Red Bright Red | 30 35 45 20 45 | | nm | IF-20mA |
| C | Capacitance | Yellow Green Yellow Orange Red Super Red Bright Red | 15 20 15 45 40 | | pF | VF=0V; f=1MHZ |
| VF | Forward Voltage | Yellow Green Yellow Orange Red Super Red Bright Red | 2.1 2.0 2.0 1.7 2.1 | 2.8 2.8 2.8 2.8 2.8 | V | IF-20mA |
| IR | Reverse Current | All | | 10 | uA | VR=5V |

Absolute Maximum Ratings at TA=25°C.

| Parameter | Yellow Green | Yellow | Orange Red | Super Red | Bright Red | Units |
|----------------------|--------------|--------|------------|-----------|------------|-------|
| Power dissipation | 100 | 85 | 100 | 110 | 45 | mW |
| DC Forward Current | 25 | 25 | 25 | 25 | 25 | mA |
| Peak Forward Current | 160 | 160 | 160 | 200 | 50 | mA |
| Reverse Voltage | 5 | 5 | 5 | 5 | 5 | V |

NOTES:

1. Operating temperature: 40°C. TO 80°C.
2. Lead soldering: 260°C for 5 seconds.