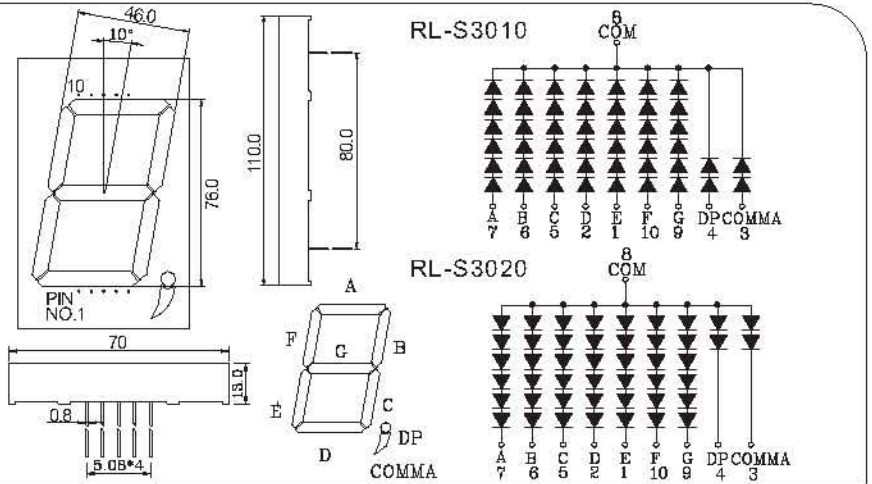


3.0 " Single Digit Display


| Part Number | Chip | | | Face color | VF(V) | | | IV(ucd) | | C.C. Or C.A. | |
|--------------|-----------|---------------|--------|------------|-------|------|----------|---------|------|--------------|------|
| | Material | Emitted Color | λp(nm) | | Min | Max | at IF=mA | Min | Max | | |
| | | | Min | | | | | | | | Max |
| RL-S3020SBRW | GaAlAs | Super Red | 635 | 645 | Red | 9.0 | 14.4 | 20 | 5300 | 11200 | C.A. |
| RL-S3020OCAW | GaAsP/GaP | Orange | 625 | 635 | Gray | 10.2 | 16.8 | 20 | 2630 | 4200 | C.A. |
| RL-S3010YCBW | GaAsP/GaP | Yellow | 585 | 595 | Black | 10.2 | 16.8 | 20 | 2180 | 3520 | C.C. |
| RL-S3010GDBW | GaP | Yellow Green | 565 | 575 | Black | 10.2 | 16.8 | 20 | 3950 | 9350 | C.C. |
| RL-S3020BDBW | InGaN | Blue | 465 | 475 | Black | 16.8 | 22.8 | 20 | 6500 | 8700 | C.A. |

Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | MAX. Rating | Unit |
|-----------------------------------|--------|-------------|------|
| Power Dissipation | Pd | 100 | mW |
| Peak forward current (10μs Pulse) | IFM | 100 | mA |
| Reverse Current | IR | 100 | μA |
| 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 ±0.1V.

3.Tolerance of measurement of peak Wavelength ±2.0nm.

4.Tolerance of measurement of luminous intensity ± 15%.

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)

