

RAYCONN ELECTRONICS CO., LTD.

SPECIFICATION FORM

FEATURES

- ✧ 0.36 INCHES (9.2MM) DIGIT HEIGHT
- ✧ 30.0MM×14.0MM OUTLINE
- ✧ FOUR DIGIT
- ✧ MONO COLOR
- ✧ EASY ASSEMBLY
- ✧ HIGH BRIGHTNESS
- ✧ SOLID STATE RELIABILITY

DESCRIPTION

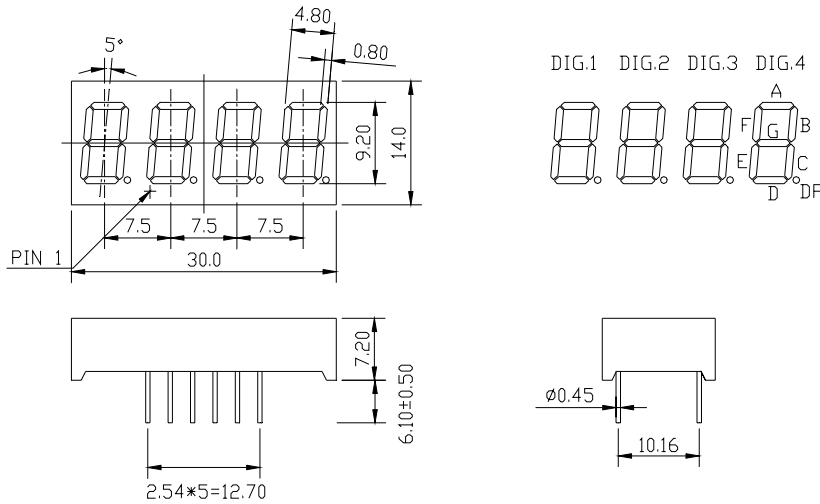
The REC-S3461CSR is a 0.36 inches (9.2mm) digit height, 30.0mm×14.0mm outline, single color, four digit, common cathode numeric display. This display utilizes super-red LED chips fabricated from GaAlAs epiwafer on GaAs substrate grown by liquid phase epitaxy. These devices have black face and white segments.

DEVICE

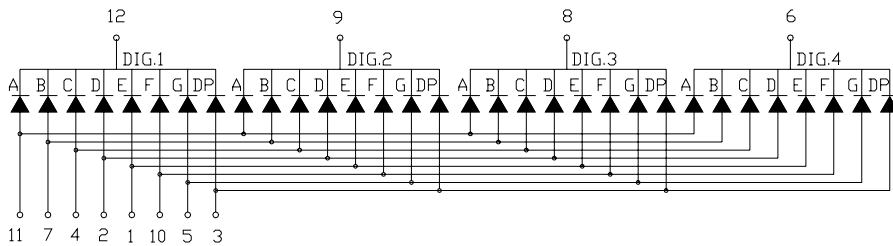
| PART NO. | EMITTING COLOR | DESCRIPTION |
|--------------|----------------|-----------------------------|
| REC-S3461CSR | Super-Red | Black Face & White Segments |

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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

| PIN NO. | CONNECTION | PIN NO. | CONNECTION |
|---------|----------------|---------|----------------|
| 1 | Anode E | 7 | Anode B |
| 2 | Anode D | 8 | Cathode Dig. 3 |
| 3 | Anode DP | 9 | Cathode Dig. 2 |
| 4 | Anode C | 10 | Anode F |
| 5 | Anode G | 11 | Anode A |
| 6 | Cathode Dig. 4 | 12 | Cathode Dig. 1 |

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ABSOLUTE MAXIMUM RATING AT $T_A=25^{\circ}\text{C}$

| PARAMETER | SYMBOL | MAXIMUM | UNIT |
|--|----------|--------------------|------|
| Power Dissipation per Seg. | P_{AD} | 60 | mW |
| Peak Forward Current per Seg. | I_{PF} | 80 | mA |
| Continuous Forward Current per Seg. | I_{AF} | 20 | mA |
| Reverse Voltage per Seg. | V_R | 5 | V |
| Operating Temperature Range, T_{opr} | | - 25° C to + 60° C | |
| Storage Temperature Range, T_{stg} | | - 30° C to + 85° C | |
| Solder Temperature : 1 / 16 inch below seating plane for 3 seconds at 260° C | | | |

ELECTRO - OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}\text{C}$

| PARAMETER | UNIT | MIN | TYPE | MAX |
|--|---------------|-----|------|-----|
| Luminous Intensity per Seg., I_V ($I_F=20\text{mA}$) | mcd | 7 | 9 | 12 |
| Peak Emission Wavelength, λ_P ($I_F=20\text{mA}$) | nm | | 640 | |
| Special Line Half-Width, $\Delta\lambda$ ($I_F=20\text{mA}$) | nm | | 20 | |
| Forward Voltage per Seg., V_F ($I_F=20\text{mA}$) | V | 1.6 | 1.75 | 2.0 |
| Reverse Current per Seg., I_R , ($V_R=5\text{V}$) | μA | | | 100 |
| Luminous Intensity Matching Ratio, I_{V-m} ($I_F=20\text{mA}$) | | | | 2:1 |