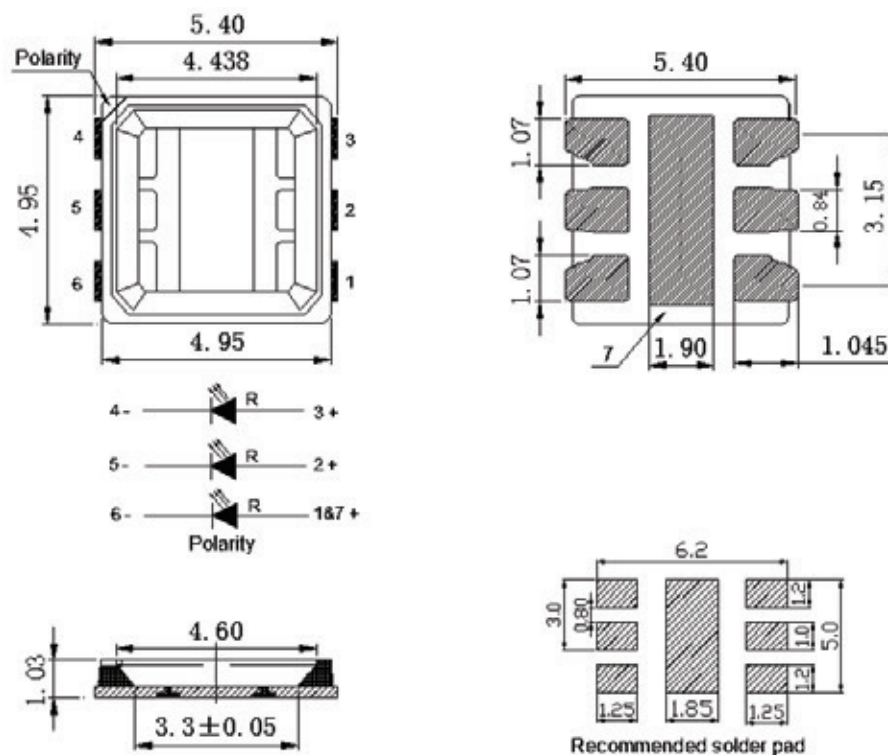


SPECIFICATION

CSPJ22RRR3C

PACKAGE OUTLINES



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

| Part Number | Chip Material | Color of Emission | Lens Type | Viewing Angle |
|-------------|---------------|-------------------|-------------|---------------|
| CSPJ22RRR3C | InGaAlP | Red | Water Clear | 120° |



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

| Parameter | Symbol | Max Rating | Unit |
|--|--------|-------------------------|------|
| Forward Current | IF | 180 | mA |
| Reverse Current @ 5V | IR | 10 | μA |
| Power Dissipation | Pd | 150 | mW |
| Operating Temperature Range | TOP | -40~+85 | °C |
| Storage Temperature Range | TSTG | -40~+100 | °C |
| Peak Pulsing Current (1/10 duty f = 10KHz) | IFP | 100 | mA |
| Soldering Temperature | TSOL | Max 260°C for 5 sec Max | |

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

| Parameter | Symbol | Test Condition | Value | | | Unit |
|-------------------------|--------|----------------|-------|------|-----|------|
| | | | Min | Typ | Max | |
| Luminous Intensity | Iv | IF = 50mA | - | 7150 | - | mcd |
| Forward Voltage | VF | IF = 50mA | - | 2.0 | 2.6 | V |
| Reverse Leakage Current | IR | VR = 5V | - | 10 | - | μA |
| Viewing Angle at 50% Iv | 2θ1/2 | IF = 50mA | - | 120 | - | Deg |
| Peak Wavelength | λP | IF = 50mA | - | 632 | - | nm |
| Dominant Wavelength | λD | IF = 50mA | - | 624 | - | nm |

*Tolerance of viewing angle: -10 / +5 deg.



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Relative Intensity vs. Wavelength

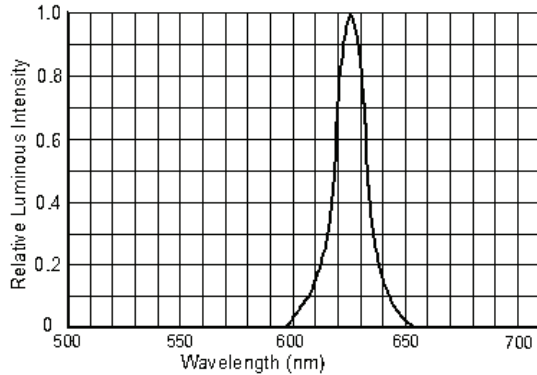


Fig.2 Forward Current vs. Ambient Temperature

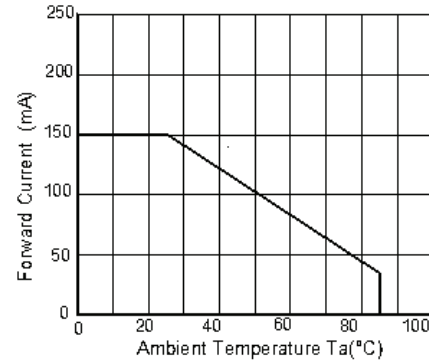


Fig.3 Forward Current vs. Forward Voltage

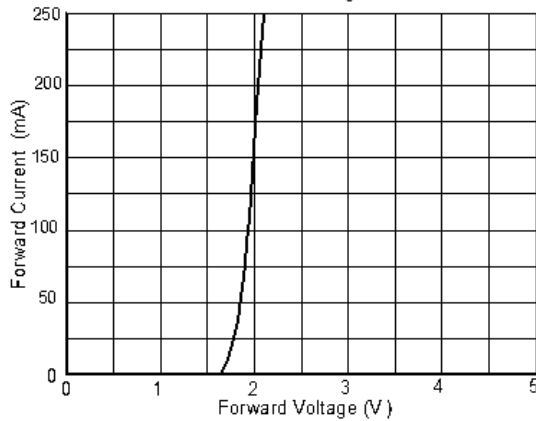


Fig.4 Relative Luminous Intensity vs. Ambient Temperature

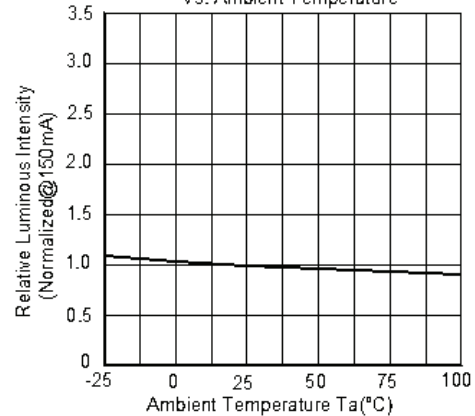


Fig.5 Relative Luminous Intensity vs. Forward Current

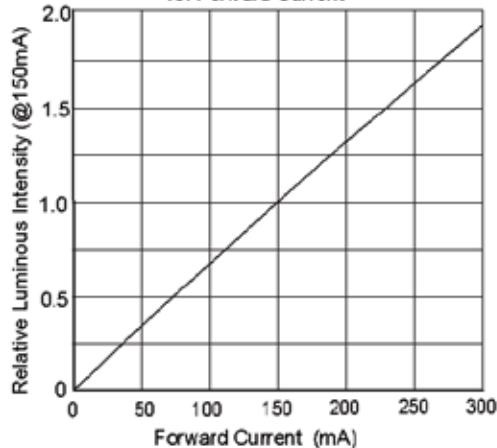
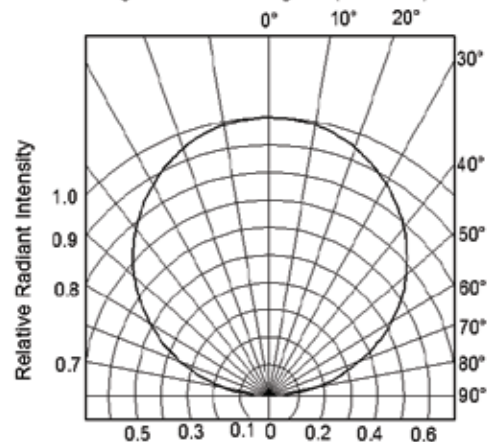
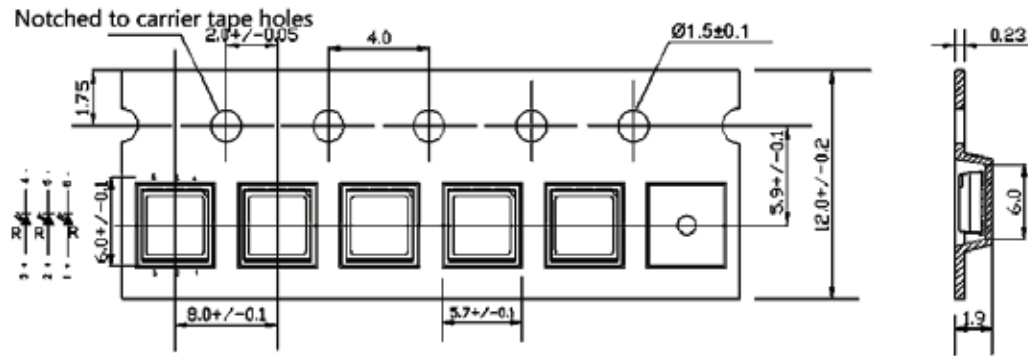


Fig.6 Radiation Diagram (Ta=25°C)



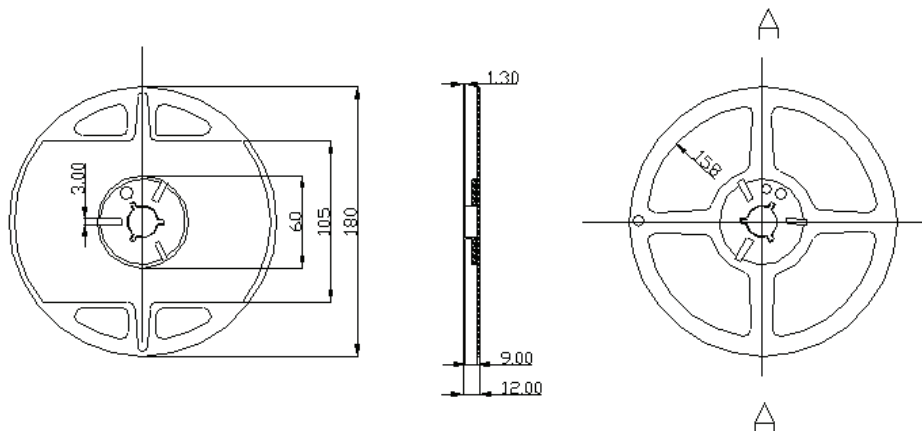
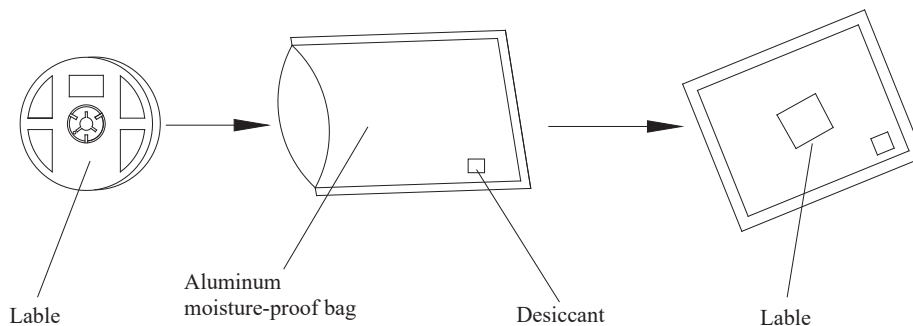
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PACKAGING SPECIFICATION



1. Tolerance unless mentioned is $\pm 0.1\text{mm}$; Unit = mm
2. Carrier Tape Dimensions: Loaded Quantity 1000 pcs Per Reel.

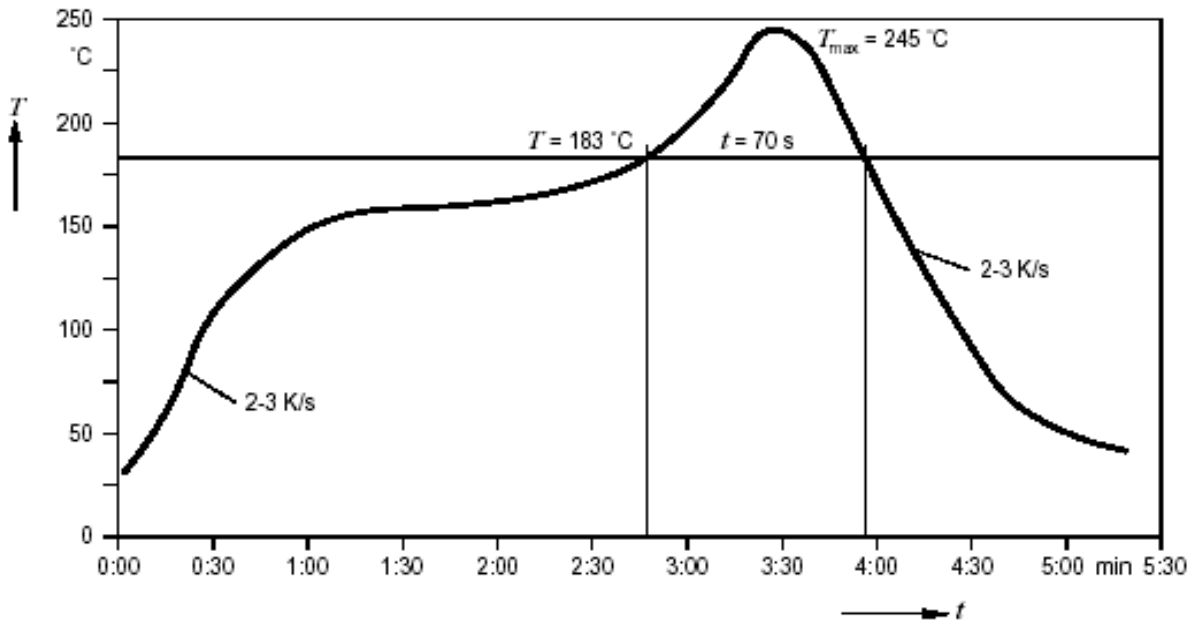
Moisture Resistant Packaging



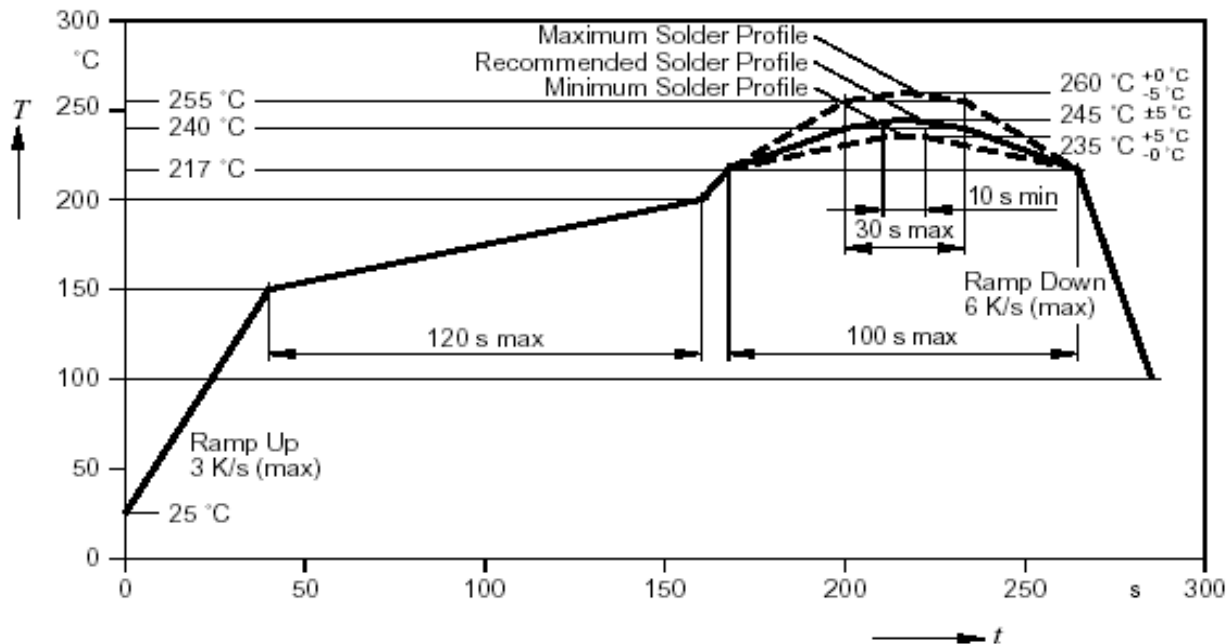
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SOLDERING CONDITIONS

Suggest Sn/Pb IR Reflow Soldering Profile Condition:



• Suggest Pb-Free IR Reflow Soldering Profile Condition:



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