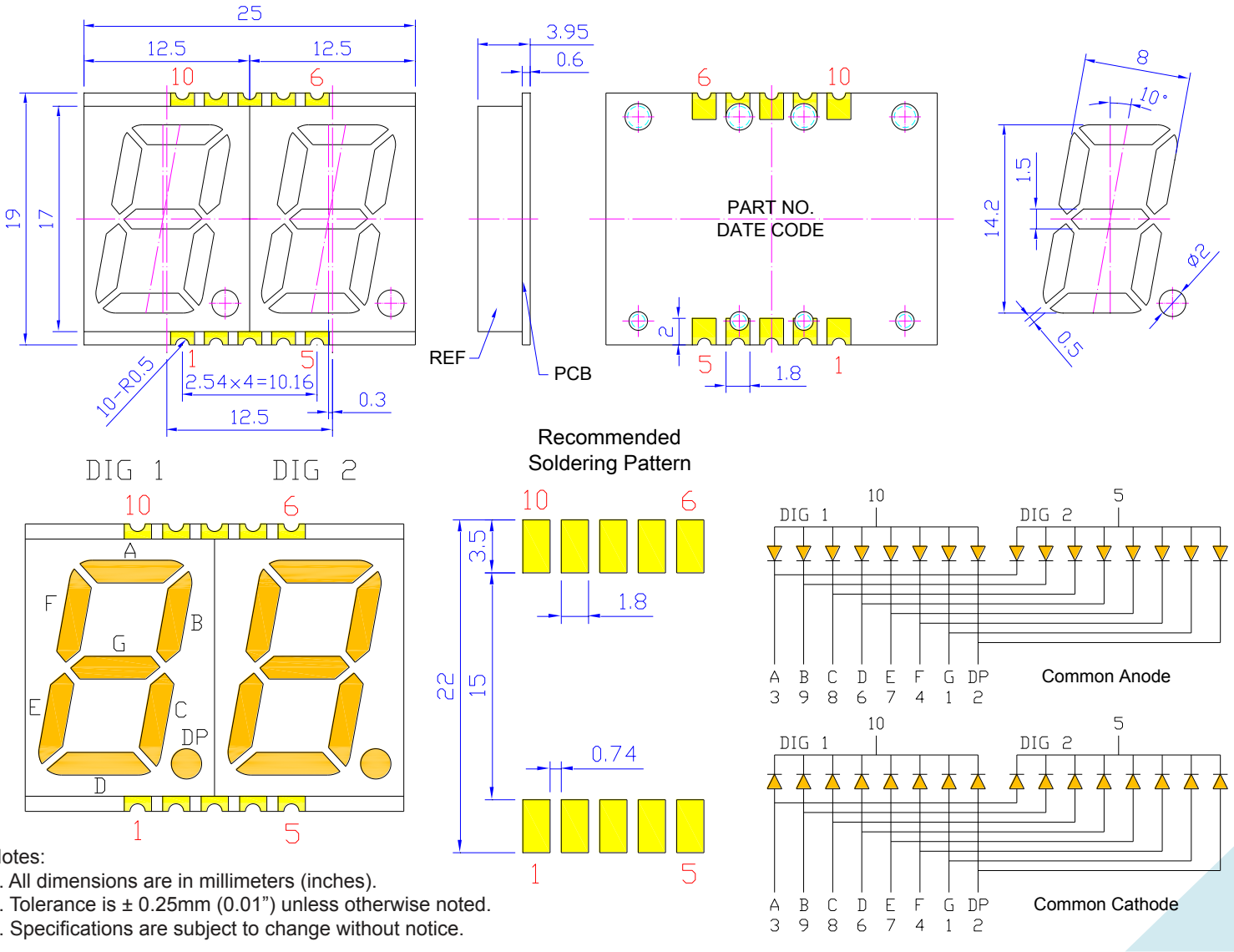


SPECIFICATIONS **SDDC56G2W**
MECHANICAL DIMENSIONS


| Part Number | Chip Material | Color of Emission | Lens Type | Description |
|-------------|---------------|-------------------|---------------|----------------|
| SDDC56G2W | InGaAlP | Green | White Segment | Common Cathode |



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

| Parameter | Symbol | Value | Unit |
|---|------------------|----------|---------|
| Power Dissipation per Dice | P _{AD} | 85 | mW |
| Derating Liner from 25°C per Dice | - | 0.33 | mA / °C |
| Continuous Forward Current per Dice | I _{AF} | 30 | mA |
| Peak Current per Dice (duty cycle 1/10, 1kHz) | I _{PF} | 120 | mA |
| Reverse Voltage per Dice | V _R | 5 | V |
| Operating Temperature | T _{OPR} | -40~+105 | °C |
| Storage Temperature | T _{STG} | -40~+105 | °C |

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

| Characteristic | Symbol | Condition | Value | | | Unit |
|---------------------------------------|----------------|-----------------------|-------|-------|------|------|
| | | | Min. | Type. | Max. | |
| Forward Voltage per Dice | V _F | I _F = 20mA | - | 2.1 | 2.4 | V |
| Reverse Current per Dice | I _R | V _R = 5V | - | - | 10 | μA |
| Peak Wavelength per Dice | λ _P | I _F = 20mA | - | 573 | - | nm |
| Dominant Wavelength per Dice | λ _D | I _F = 20mA | 566 | 571 | 574 | nm |
| Luminous Intensity per Dice | I _V | I _F = 20mA | - | 25 | - | mcd |
| Spectral Radiation Bandwidth per Dice | Δλ | I _F = 20mA | - | 20 | - | nm |

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



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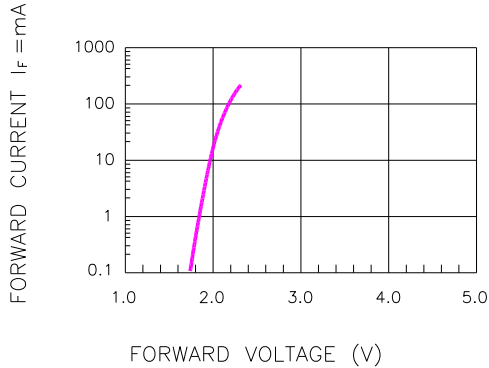
OPTICAL CHARACTERISTIC CURVES
**Typical Electro-optical Characteristic Curves
(25 °C Free Air Temperature Unless Otherwise Specified)**


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

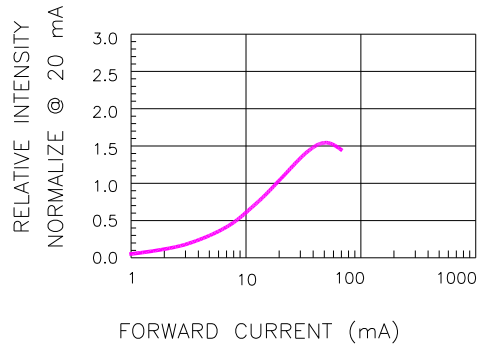


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

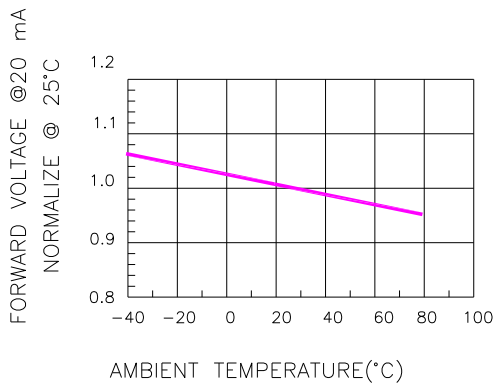


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

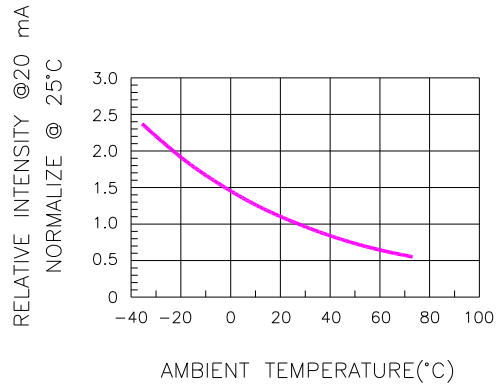


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

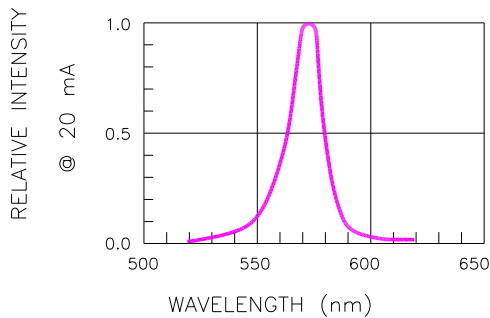


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

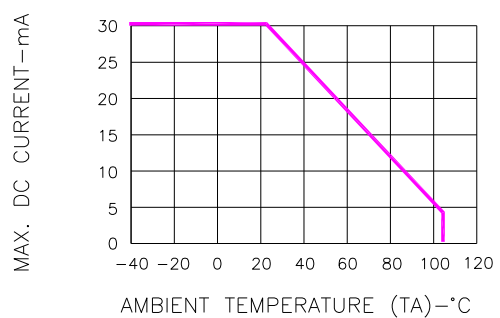


Fig.6 MAX. ALLOWABLE DC CURRENT



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SOLDERING CONDITIONS – LAMP TYPE LED

● **SMT REFLOW SOLDERING INSTRUCTIONS**

SMT Soldering Profile
 Pb free reflow soldering Profile



● **SOLDERING IRON**

Basic spec is ≤ 4 sec when 260°C. If temperature is higher, time should be shorter (+10°C→1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

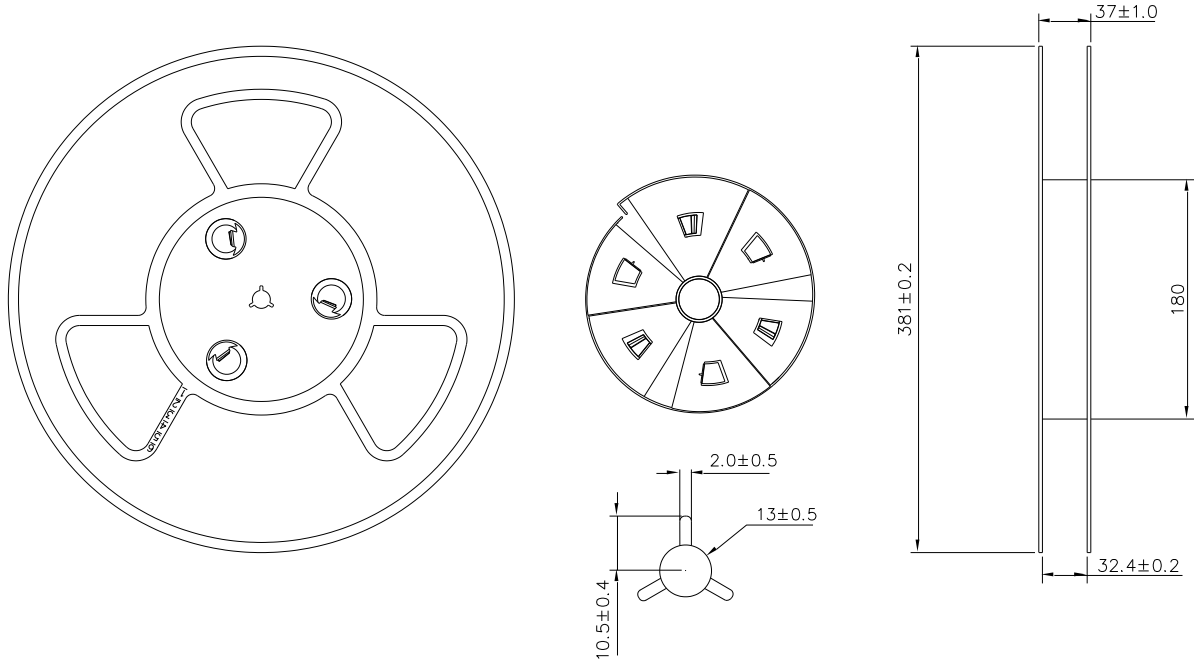
● **REWORK**

- Customer must finish rework within 5 sec. under 260°C.
- The head of soldering iron cannot touch copper foil.

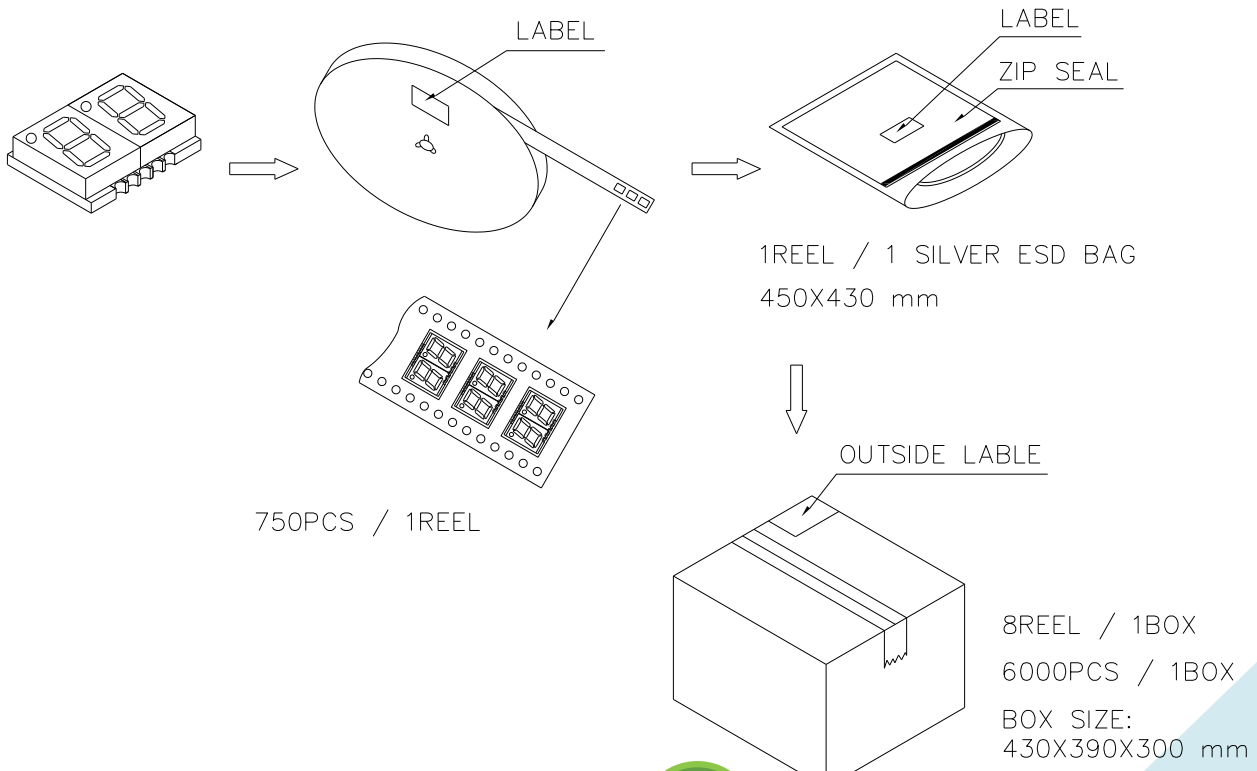


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DIMENSIONS OF TAPE (Unit: mm)



PACKAGING SPECIFICATION



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