



Selection Guide

| Part No. | Dice | Lens Type | Iv (ucd) [1] @ 10mA | | Description |
|-------------------|---------------------------|----------------|------------------------|-------|---------------------------------|
| | | | Min. | Typ. | |
| ACSA03-41SRWA-F01 | Super Bright Red (GaAlAs) | WHITE DIFFUSED | 4700 | 19000 | Common Anode, Rt. Hand Decimal. |

Note:

1. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|------------------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Super Bright Red | 660 | | nm | IF=20mA |
| λ_D [1] | Dominant Wavelength | Super Bright Red | 640 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Super Bright Red | 20 | | nm | IF=20mA |
| C | Capacitance | Super Bright Red | 45 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Super Bright Red | 1.85 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Super Bright Red | | 10 | uA | VR=5V |

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

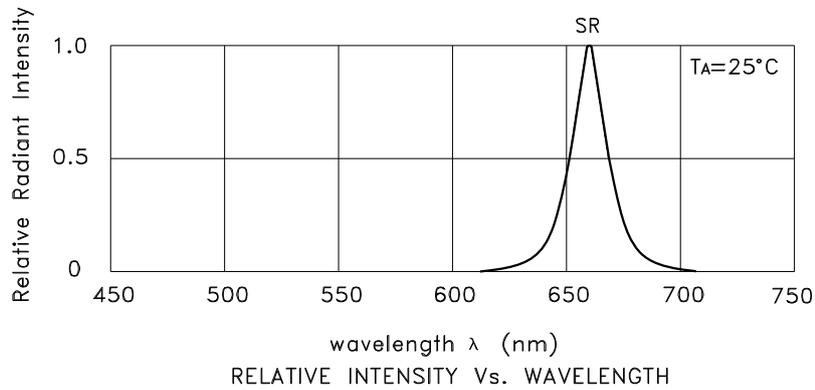
Absolute Maximum Ratings at TA=25°C

| Parameter | Super Bright Red | Units |
|---------------------------------|------------------|-------|
| Power dissipation | 75 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 155 | mA |
| Reverse Voltage | 5 | V |
| Operating / Storage Temperature | -40°C To +85°C | |

Note:

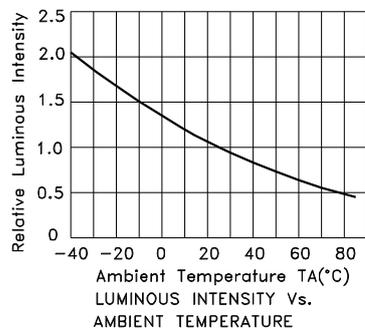
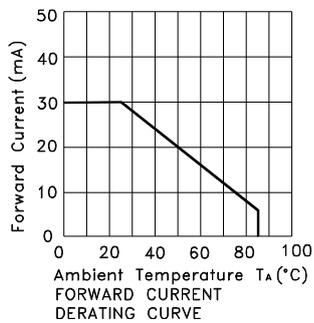
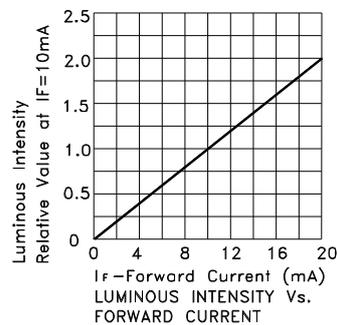
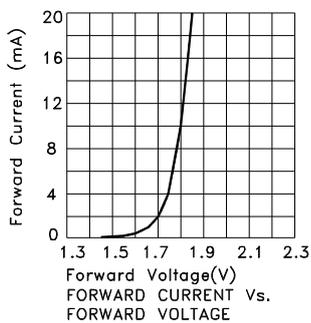
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

Kingbright



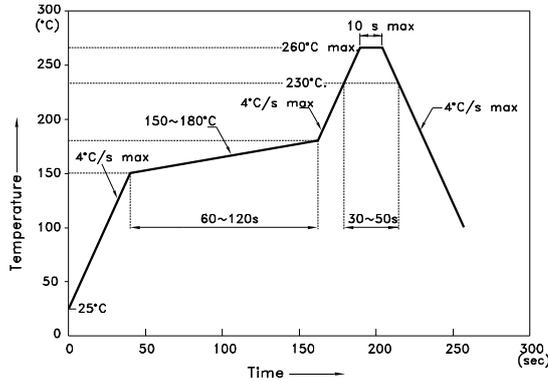
Super Bright Red

ACSA03-41SRWA-F01



ACSA03-41SRWA-F01

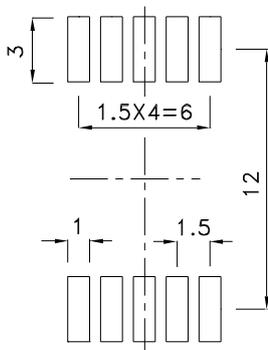
Reflow Soldering Profile For Lead-free SMT Process.



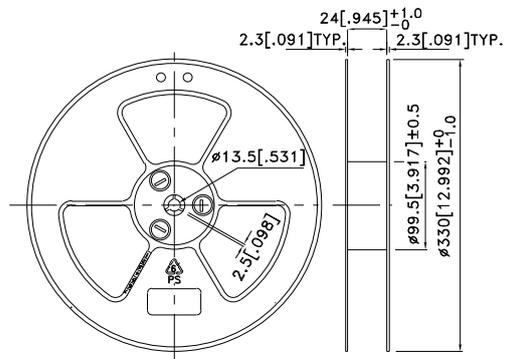
NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

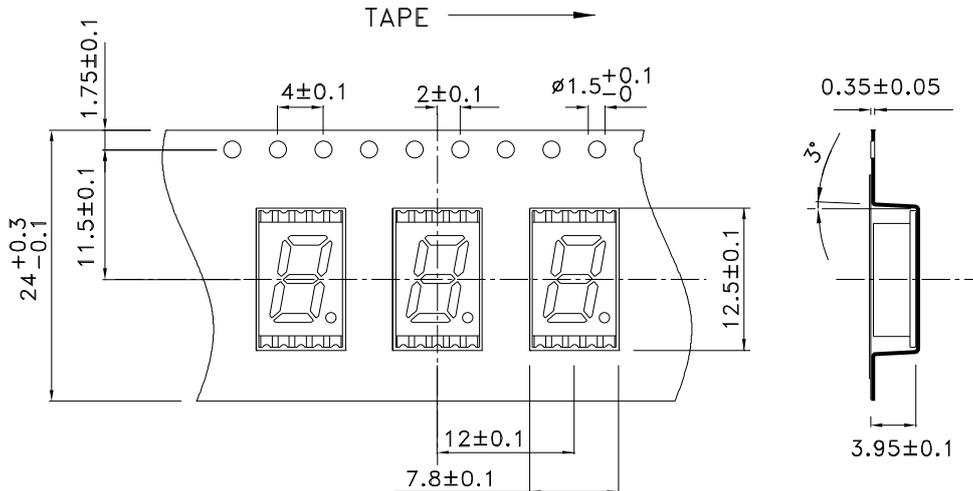
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.15)



Reel Dimension



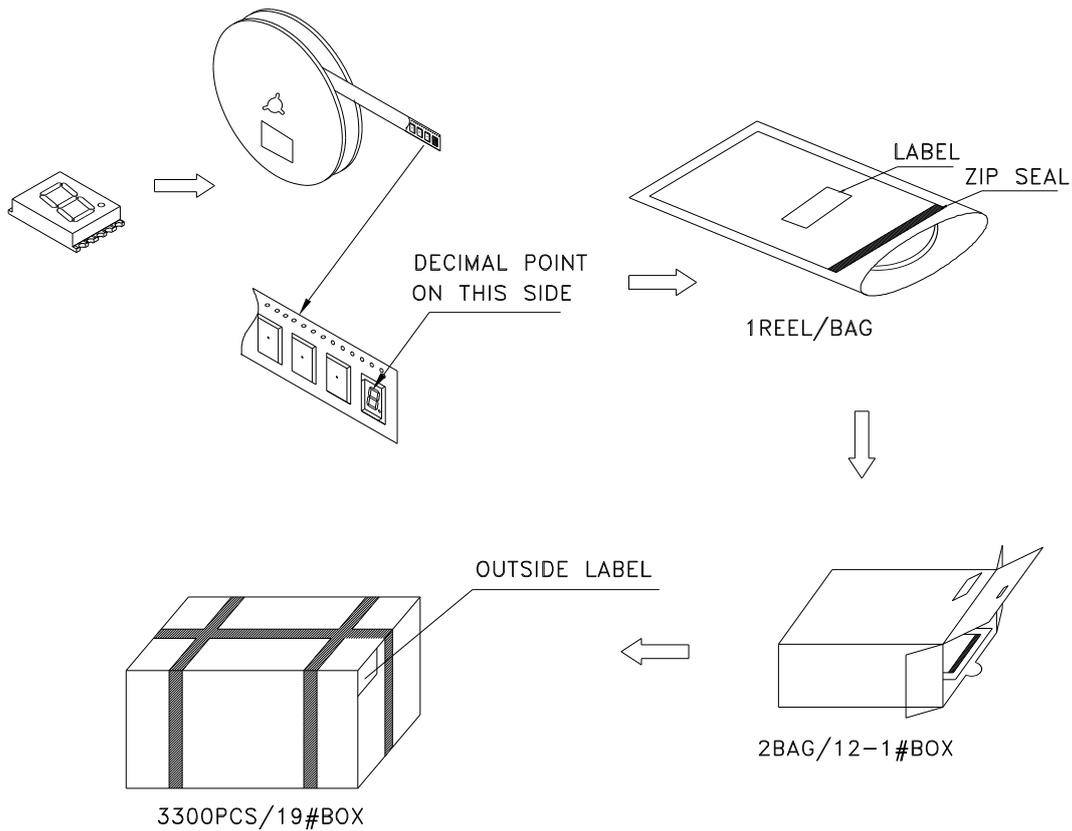
Tape Specifications (Units : mm)



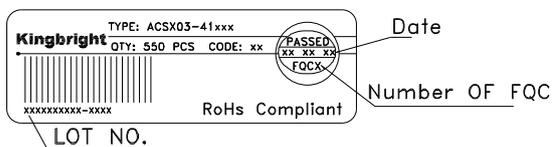
Kingbright

PACKING & LABEL SPECIFICATIONS

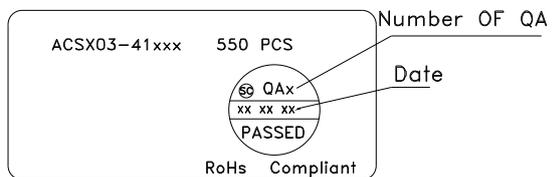
ACSA03-41SRWA-F01



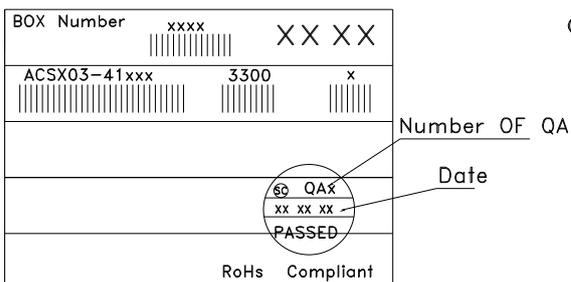
Inside LABEL Paste On The Type pipe



Outside LABEL Paste On The BAG



Outside LABEL Paste On The 19#Box



Outside LABEL Paste On The 12-1#Box

