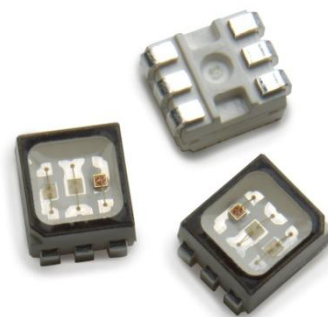


New Product **Hot Sheet**

OneLED – Infinite Colors

Water Resistant, High Brightness RGB PLCC6 LED

Avago Technologies' high brightness tri-color Mini-PLCC6 SMT LED family combines high reliability characteristics with other features that make them ideally suited to exterior and interior full color displays, video screens, and decorative lighting applications.



Product Features:

- Small PLCC6 package 3.4 × 2.8 × 1.8 mm
- In-line RGB dies configuration
- Individual addressable pin-out for drive configuration flexibility
- High reliability LED package with silicone encapsulation
- **Water-Resistance (IPx6) per IEC 60529:2001**
- Compatible with reflow soldering process
- Wide viewing angle of 120°

Target Applications:

- Outdoor & indoor full color displays
- Video screens
- Advertising signs
- Stadium scoreboards
- Industrial applications
- Gaming machines
- Decorative lighting

YTB7 high performance, cost-efficient RGB PLCC6 LED

Additional Product Features:

- Narrow color binning – “flexi bin” option is available on request
- Diffused silicone encapsulation:
 - enhanced contrast ratio (reduction of reflection light from leadframe)
 - enhanced consistency of the radiation pattern

- **Operating Temperature: -40°C to 100°C**
- JEDEC MSL 3

| Product Number | Color | Dominant Wavelength | Luminous Intensity I _v (min.) | Luminous Intensity I _v (typ.) | Test Current | DC Forward Current (max.) | Forward Voltage typ. V _F | Packaging |
|---|--------------|----------------------------|--|--|--------------|---------------------------|-------------------------------------|-------------------|
| ASMT-YTB7-0AA02 Black-Surface RGB PLCC6 | Red | 617 - 627nm | 560mcd | 650mcd | 20mA | 50mA | 2.1V | 2000 pcs per reel |
| | Green | 525 - 537nm ⁽¹⁾ | 1400mcd | 1900mcd | 20mA | 25mA | 3.1V | |
| | Blue | 465 - 475nm ⁽¹⁾ | 285mcd | 384mcd | 20mA | 25mA | 3.1V | |

(1) Narrow Color Bin selections for green and blue are available on request

YTB6 low-cost RGB PLCC6 LED

Additional Product Features:

- **Single color bin and single intensity bin**

- Operating Temperature: -40°C to 85°C
- JEDEC MSL 3

| Product Number | Color | Dominant Wavelength | Luminous Intensity I _v (min.) | Luminous Intensity I _v (typ.) | Test Current | DC Forward Current (max.) | Forward Voltage typ. V _F | Packaging |
|---|--------------|---------------------|--|--|--------------|---------------------------|-------------------------------------|-------------------|
| ASMT-YTB6-02113 Black-Surface RGB PLCC6 | Red | 618 - 628nm | 400mcd | 455mcd | 15mA | 20mA | 2.0V | 2000 pcs per reel |
| | Green | 528 - 533nm | 540mcd | 640mcd | 10mA | 20mA | 3.0V | |
| | Blue | 466 - 470nm | 123mcd | 140mcd | 10mA | 20mA | 3.0V | |

OneLED Infinite Colors

Water Resistant, High Brightness
RGB PLCC6 LED



YTx2-series

high reliability, automotive-tested RGB PLCC6 LED

Additional Product Features:

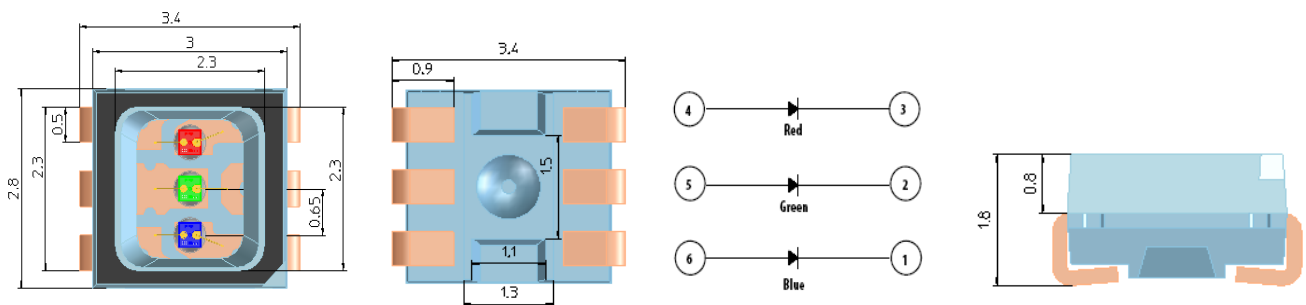
- Operating Temperature: -40°C to 110°C
- Narrow color binning – “flexi bin” option is available on request
- JEDEC MSL 2a
- Available in White-Surface, Black-Surface and full Black-Body for better contrast (e.g. indoor full color displays)

Additional Applications:

- Interior automotive

| Product Number | Color | Dominant Wavelength | Luminous Intensity I _v (min.) | Luminous Intensity I _v (typ.) | Test Current | DC Forward Current (max.) | Forward Voltage typ. V _F | Packaging |
|---|-------|----------------------------|--|--|--------------|---------------------------|-------------------------------------|-------------------|
| ASMT-YTB2-0BB02 Black-Surface RGB PLCC6 | Red | 618 - 628nm | 560mcd | 745mcd | 20mA | 50mA | 2.1V | 1000 pcs per reel |
| | Green | 525 - 537nm ⁽¹⁾ | 1125mcd | 1600mcd | 20mA | 30mA | 3.2V | |
| | Blue | 465 - 477nm ⁽¹⁾ | 285mcd | 380mcd | 20mA | 30mA | 3.2V | |
| ASMT-YTC2-0AA02 Black-Body RGB PLCC6 | Red | 618 - 628nm | 355mcd | 450mcd | 20mA | 50mA | 2.1V | 1000 pcs per reel |
| | Green | 525 - 537nm ⁽¹⁾ | 450mcd | 560mcd | 20mA | 30mA | 3.2V | |
| | Blue | 465 - 477nm ⁽¹⁾ | 140mcd | 180mcd | 20mA | 30mA | 3.2V | |
| ASMT-YTD2-0BB02 White-Surface RGB PLCC6 | Red | 618 - 628nm | 560mcd | 745mcd | 20mA | 50mA | 2.1V | 1000 pcs per reel |
| | Green | 525 - 537nm ⁽¹⁾ | 1125mcd | 1600mcd | 20mA | 30mA | 3.2V | |
| | Blue | 465 - 477nm ⁽¹⁾ | 285mcd | 380mcd | 20mA | 30mA | 3.2V | |

(1) Narrow Color Bin selections for green and blue are available on request



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