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## PL00238 Series Tri-Color SMD LED 0606 Package

### Features

- \*Flat Lens Package 1.6 x 1.6 x 0.75mm
- \*AlGaInP Ultra Bright Red and GaN Green and Blue LED Chips used
- \*Low Current Requirements
- \*High Light Output
- \*Compatible with IR Solder-Process
- \*Industry Standard Footprint
- \*For use as Optical Indicator, Backlighting
- \*2000 or 1000 pcs per Reel
- \*RoHS Compliant

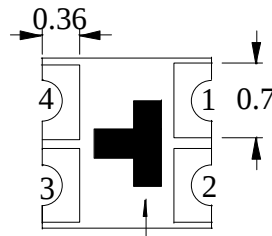
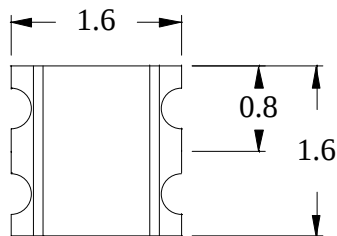
### Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

|                                                                               |                      |
|-------------------------------------------------------------------------------|----------------------|
| Power Dissipation (Red).....                                                  | 72mW                 |
| Power Dissipation (Green & Blue).....                                         | 120mW                |
| Reverse Voltage (<100 $\mu$ A).....                                           | 5.0V                 |
| Max Forward Current .....                                                     | 30mA                 |
| Peak Forward Current (Red) (1/10 Duty Cycle, 0.1ms Pulse Width).....          | 150mA                |
| Peak Forward Current (Green & Blue) (1/10 Duty Cycle, 0.1ms Pulse Width)..... | 100mA                |
| Operating Temperature Range .....                                             | -40°C to + 85°C      |
| Storage Temperature Range .....                                               | -40°C to + 85°C      |
| Reflow Soldering Temperature.....                                             | 260°C for 10 seconds |

### Electrical & Optical Characteristics at $T_A = 25^\circ\text{C}$

| Part Number         | Emitting Color | Chip Material | Peak Wave Length | Dominant Wave Length | Viewing Angle 2 $\theta$ 1/2 | Forward Voltage @20mA (V) |     | Luminous Intensity @20mA (mcd) |       |
|---------------------|----------------|---------------|------------------|----------------------|------------------------------|---------------------------|-----|--------------------------------|-------|
|                     |                |               |                  |                      |                              | Typ                       | Max | Min                            | Typ   |
| Water Clear Lens    |                |               | nm               | nm                   | Deg                          |                           |     |                                |       |
| PL00238-WCRGB260508 | Red            | AlGaInP       | 650              | 630                  | 120°                         | 1.95                      | 2.4 | 35.0                           | 60.0  |
|                     | Pure Green     | GaN           | 523              | 525                  |                              | 3.5                       | 4.0 | 90.0                           | 200.0 |
|                     | Blue           | GaN           | —                | 470                  |                              | 3.5                       | 4.0 | 25.0                           | 40.0  |

Package Dimensions are in **Millimeters**. Tolerance is  $\pm 0.25\text{mm}$  unless otherwise specified.



POLARITY MARK

