



## PL1010 Series Oval Lens High Power White SMD LED

### Features

- \*TO-220 Package
- \*High Light Output
- \*Wide Viewing Angle
- \*Thermal Resistance Junction to Board is 15°C/W
- \*RoHS Complaint

### Absolute Maximum Ratings at T<sub>A</sub> = 25°C

|                                                            |                      |
|------------------------------------------------------------|----------------------|
| Reverse Voltage (50μA) .....                               | 5.0V                 |
| Power Dissipation .....                                    | 1W                   |
| D.C. Forward Current .....                                 | 350mA                |
| Pulsed Forward Current : tp ≤100μs, Duty Cycle=0.005 ..... | 1000mA               |
| Operating Temperature Range .....                          | -30°C to +85°C       |
| Storage Temperature Range .....                            | -40°C to +105°C      |
| Reflow Soldering Temperature .....                         | 260°C for 10 seconds |
| ESD Threshold (HBM) .....                                  | 6000V                |
| LED Junction Temperature .....                             | 120°C                |

### Electrical & Optical Characteristics at T<sub>A</sub> = 25°C

| Part Number   | Emitting Color | Chip Material | Color Temperature (°K) |      | View Angle 2θ ½ | Forward Voltage @350mA (V) |      | Luminous Flux (lm) |      |
|---------------|----------------|---------------|------------------------|------|-----------------|----------------------------|------|--------------------|------|
|               |                |               | Min                    | Max  |                 | Typ                        | Max  | Min                | Max  |
| PL1010SO-WCCW | White          | InGaN         | 5000                   | 8000 | H60°<br>V30°    | 2.7                        | 4.25 | 23.5               | 51.6 |

Package Dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified.

