

W7104PWC

WHITE

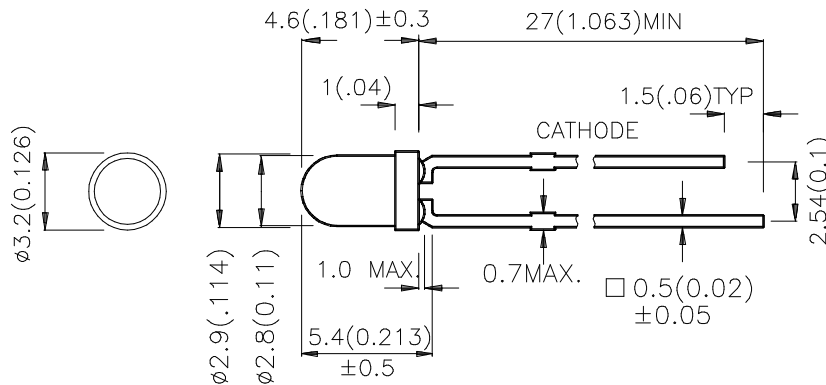
### Features

- LOW POWER CONSUMPTION.
- SOLID STATE BLUE LIGHT SOURCE.
- SUITABLE FOR FULL COLOR LED DISIPLAYS AND INDICATORS DIAGNOSTIC/ANALYTICAL EQUIPMENT.

### Description

The source color devices are made with InGaN on SiC Light Emitting Diode.

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

| Part No. | Dice          | Lens Type   | Iv (mcd)<br>@ 20 mA |      | Viewing<br>Angle |
|----------|---------------|-------------|---------------------|------|------------------|
|          |               |             | Min.                | Typ. | 2θ1/2            |
| W7104PWC | WHITE (InGaN) | WATER CLEAR | 180                 | 600  | 34°              |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

| Symbol         | Parameter                | Device | Typ. | Max. | Units | Test Conditions            |
|----------------|--------------------------|--------|------|------|-------|----------------------------|
| V <sub>F</sub> | Forward Voltage          | White  | 3.65 | 4.2  | V     | I <sub>F</sub> =20mA       |
| I <sub>R</sub> | Reverse Current          | White  |      | 10   | uA    | V <sub>R</sub> = 5V        |
| X              | Chromaticity Coordinates | White  | 0.33 |      |       |                            |
| Y              |                          |        | 0.34 |      |       |                            |
| C              | Capacitance              | White  | 65   |      | pF    | V <sub>F</sub> =0V, f=1MHz |

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

| Parameter                       | White               | Units |
|---------------------------------|---------------------|-------|
| Power dissipation               | 102                 | mW    |
| DC Forward Current              | 30                  | mA    |
| Peak Forward Current[1]         | 160                 | mA    |
| Reverse Voltage                 | 5                   | V     |
| Operating / Storage Temperature | -40°C To +85°C      |       |
| Lead Solder Temperature[2]      | 260°C For 5 Seconds |       |

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.

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