

# T-1 3/4 ( $\phi$ 5mm) PACKAGE HIGH POWER AlInGaP LED LAMPs

MVL-5A4SO

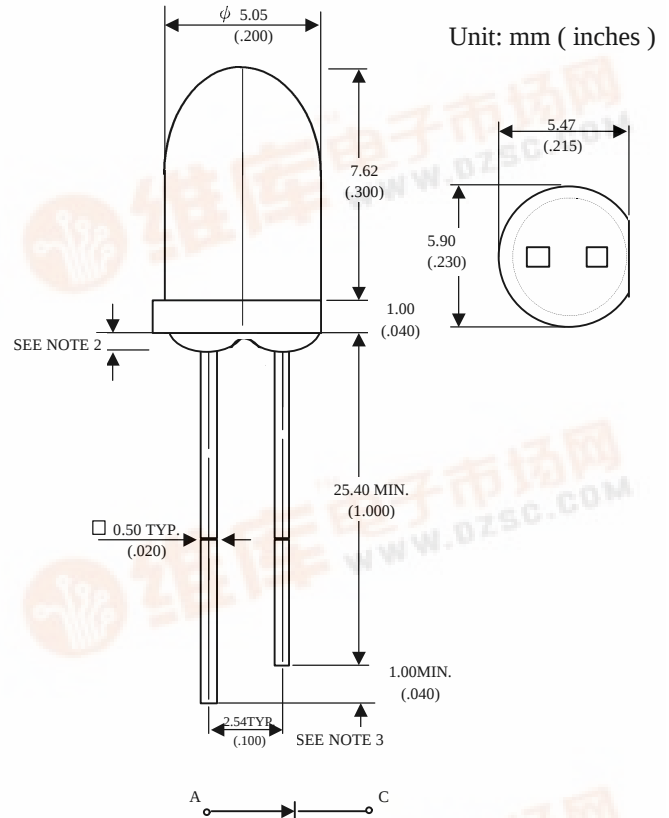
## Description

The MVL-5A4SO utilizes the latest absorbing substrate Aluminum Indium Gallium Phosphide (AlInGaP) LED technology. This LED material has outstanding light output efficiency over a wide range of drive current.  
The package is T-1 3/4 ( $\phi$ 5mm) water clear standard type.

## Features

- Ultra - brightness
- Low power consumption
- TTL compatible
- Reliable

## Package Dimensions



Notes :

1. Tolerance is  $\pm 0.25$  mm (.010") unless otherwise noted.
2. Protruded resin under flange is 1.5 mm (.059") max.
3. Lead spacing is measured where the leads emerge from the package.

## Absolute Maximum Ratings

@  $T_A = 25^\circ\text{C}$

| Parameter                                                          | Maximum Rating   | Unit |
|--------------------------------------------------------------------|------------------|------|
| Power Dissipation                                                  | 125              | mW   |
| Peak Forward Current(1/10 Duty Cycle100μs pulse width)             | 100              | mA   |
| Continuous Forward Current                                         | 50               | mA   |
| Reverse Voltage                                                    | 5                | V    |
| Operating Temperature Range                                        | -40°C to + 100°C |      |
| Storage Temperature Range                                          | -40°C to + 100°C |      |
| Lead Soldering Temperature 1.6 mm from body for 5 seconds at 260°C |                  |      |

## Optical-Electrical Characteristics

@  $T_A=25^{\circ}\text{C}$

| Parameter                | Test Conditions   | Symbol          | Min . | Typ . | Max . | Unit .        |
|--------------------------|-------------------|-----------------|-------|-------|-------|---------------|
| Luminous Intensity       | $I_F=20\text{mA}$ | $I_V$           | 1500  | 3000  | -     | mcd           |
| Forward Voltage          | $I_F=20\text{mA}$ | $V_F$           | -     | 2.0   | 2.6   | V             |
| Reverse Current          | $V_R=5\text{V}$   | $I_R$           | -     | -     | 100   | $\mu\text{A}$ |
| Dominant Wavelength      | $I_F=20\text{mA}$ | $\lambda_d$     | -     | 605   | -     | nm            |
| Spectral Line Half Width | $I_F=20\text{mA}$ | $\Delta\lambda$ | -     | 19    | -     | nm            |
| Viewing Angle            | $I_F=20\text{mA}$ | $2\theta_{1/2}$ | -     | 8     | -     | deg.          |

## Typical Optical-Electrical Characteristic Curves

