

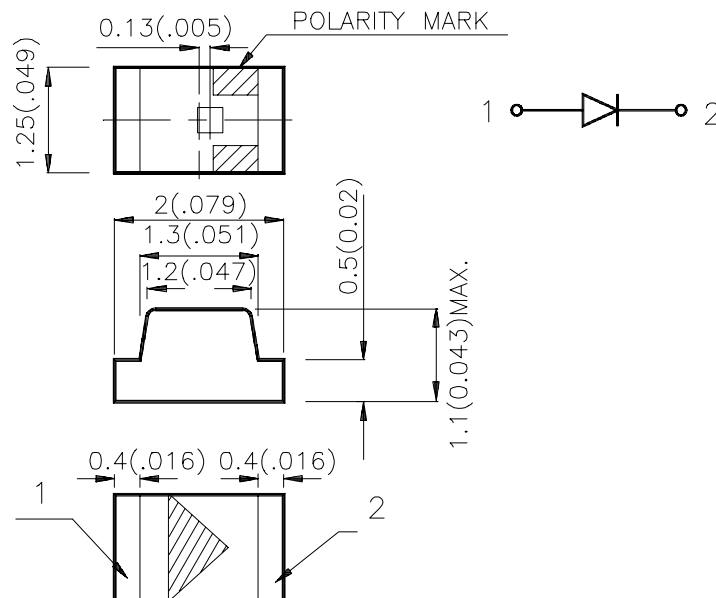
### Features

- 2.0mmx1.25mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.

### Description

The Mega Green source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

### Package Dimensions



### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1(0.004)$  unless otherwise noted.
3. 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            |
| KP-2012MGC | MEGA GREEN (InGaAlP) | WATER CLEAR | 18                  | 70   | 120°             |

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

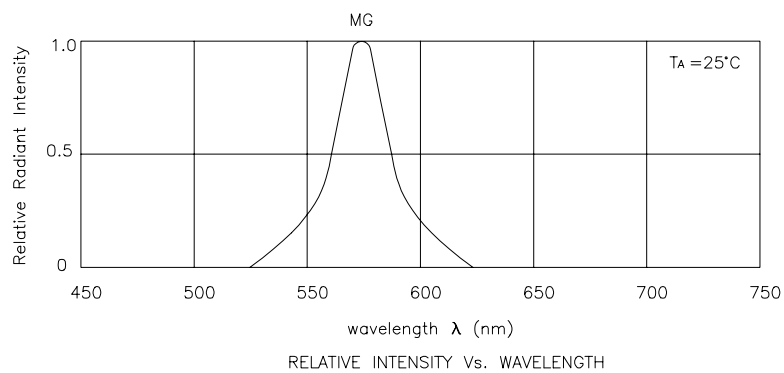
| Symbol            | Parameter                | Device     | Typ. | Max. | Units | Test Conditions           |
|-------------------|--------------------------|------------|------|------|-------|---------------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Mega Green | 574  |      | nm    | I <sub>F</sub> =20mA      |
| λ <sub>D</sub>    | Dominate Wavelength      | Mega Green | 568  |      | nm    | I <sub>F</sub> =20mA      |
| Δλ 1/2            | Spectral Line Half-width | Mega Green | 26   |      | nm    | I <sub>F</sub> =20mA      |
| C                 | Capacitance              | Mega Green | 20   |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub>    | Forward Voltage          | Mega Green | 2.1  | 2.5  | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>    | Reverse Current          | Mega Green |      | 10   | uA    | V <sub>R</sub> = 5V       |

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

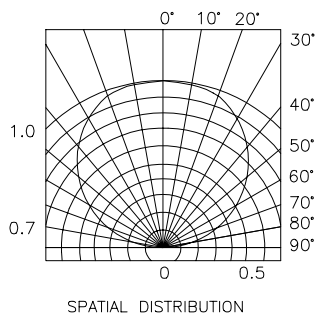
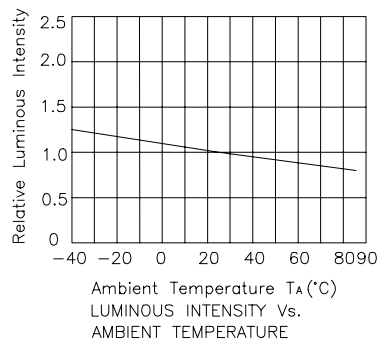
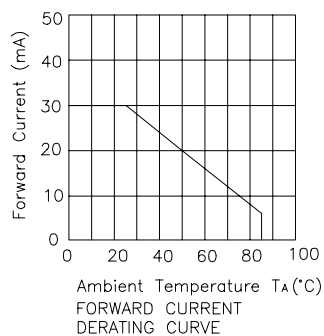
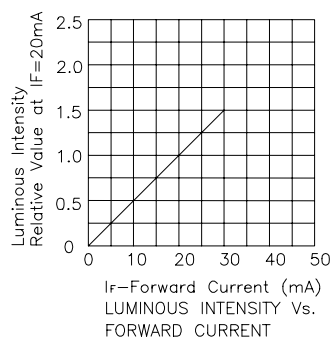
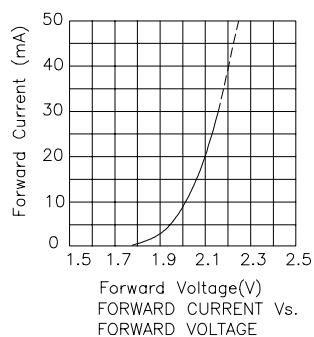
| Parameter                       | Mega Green     | Units |
|---------------------------------|----------------|-------|
| Power dissipation               | 105            | mW    |
| DC Forward Current              | 30             | mA    |
| Peak Forward Current [1]        | 150            | mA    |
| Reverse Voltage                 | 5              | V     |
| Operating / Storage Temperature | -40°C To +85°C |       |

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



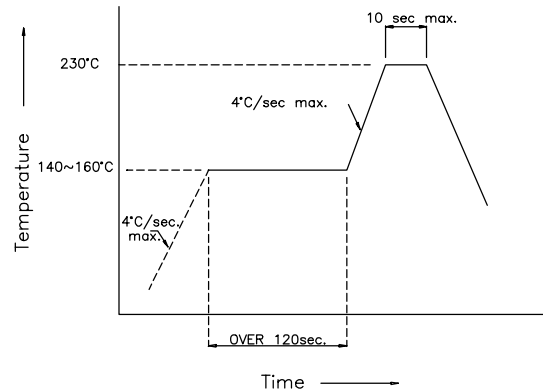
## Mega Green KP-2012MGC



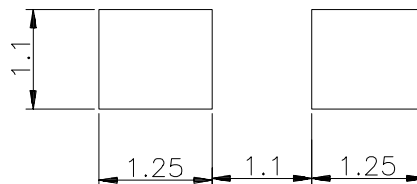
## KP-2012MGC

### SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



### Recommended Soldering Pattern (Units : mm)



### Tape Specifications (Units : mm)

