

KPH-1608MGC MEGA GREEN

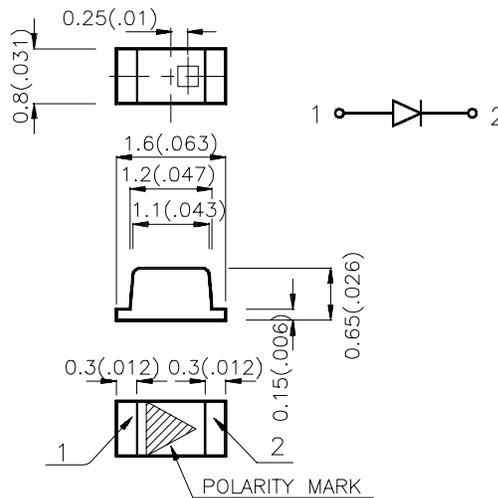
### Features

- 1.6mmx0.8mm SMT LED, 0.65mm 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. 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            |
| KPH-1608MGC | MEGA GREEN ( InGaAlP ) | WATER CLEAR | 20                  | 50   | 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

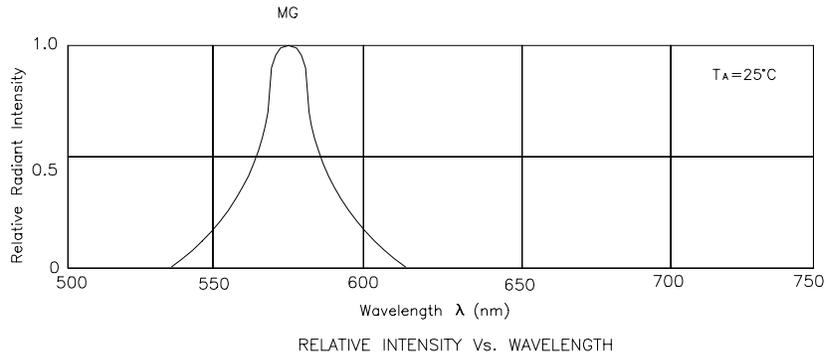
| Symbol            | Parameter               | Device     | Typ. | Max. | Units | Test Conditions |
|-------------------|-------------------------|------------|------|------|-------|-----------------|
| λ <sub>peak</sub> | Peak Wavelength         | Mega Green | 574  |      | nm    | IF=20mA        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

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

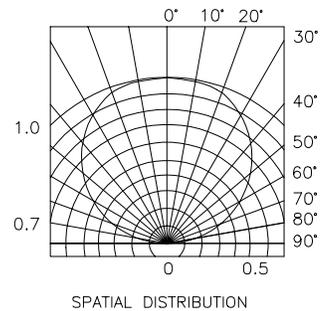
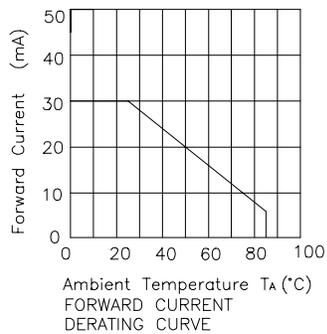
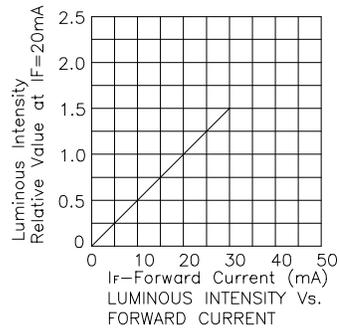
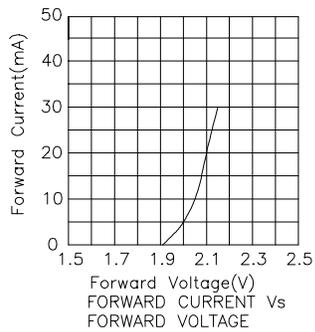
| Parameter                | Mega Green     | Units |
|--------------------------|----------------|-------|
| Power dissipation        | 105            | mW    |
| DC Forward Current       | 30             | mA    |
| Peak Forward Current [1] | 205            | mA    |
| Reverse Voltage          | 5              | V     |
| Operating Temperature    | -40°C To +85°C |       |
| Storage Temperature      | -40°C To +85°C |       |

Note:

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

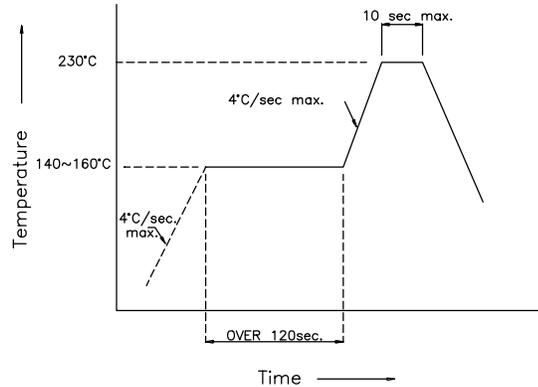


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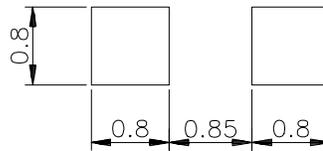


## KPH-1608MGC SMT Reflow Soldering Instructions

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)

