

#### 2.0x1.25mm SMD CHIP LED LAMP

APTC2012MGC

MEGA GREEN

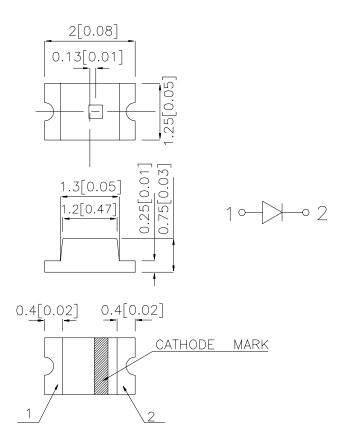
#### **Features**

- •2.0mmx1.25mm SMT LED,0.75mm 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 InGaAIP 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.

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#### **Selection Guide**

Part No.	Dice	Dice Lens Type			<b>Viewing</b> Angle
			Min.	Тур.	201/2
APTC2012MGC	MEGA GREEN (InGaAIP)	WATER CLEAR	18	70	120°

#### Note:

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green	574		nm	IF=20mA
λD	Dominate Wavelength	Mega Green	568		nm	IF=20mA
Δλ 1/2	Spectral Line Half-width	Mega Green	26		nm	IF=20mA
С	Capacitance	Mega Green	20		pF	V F =0V;f=1MHz
VF	Forward Voltage	Mega Green	2.1	2.5	V	IF=20mA
IR	Reverse Current	Mega Green		10	uA	V R = 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

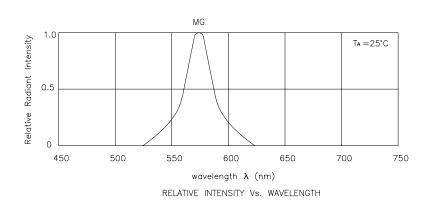
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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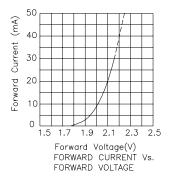
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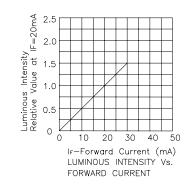
<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

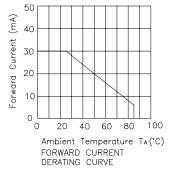
# Kingbright

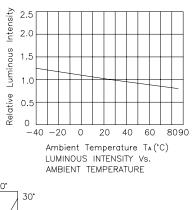


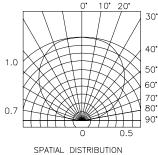
Mega Green APTC2012MGC











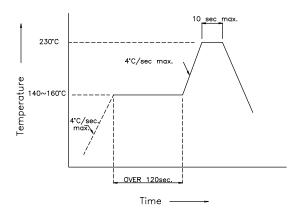
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# Kingbright

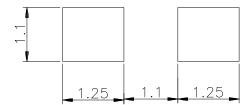
## APTC2012MGC

## **SMT Reflow Soldering Instructions**

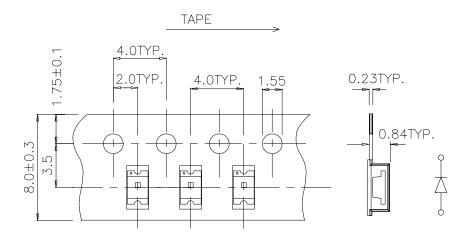
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



## Recommended Soldering Pattern (Units:mm)



## Tape Specifications (Units:mm)



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