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1.0x0.5mm SMD CHIP LED LAMP

KPHHS-1005MGCK MEGA GREEN

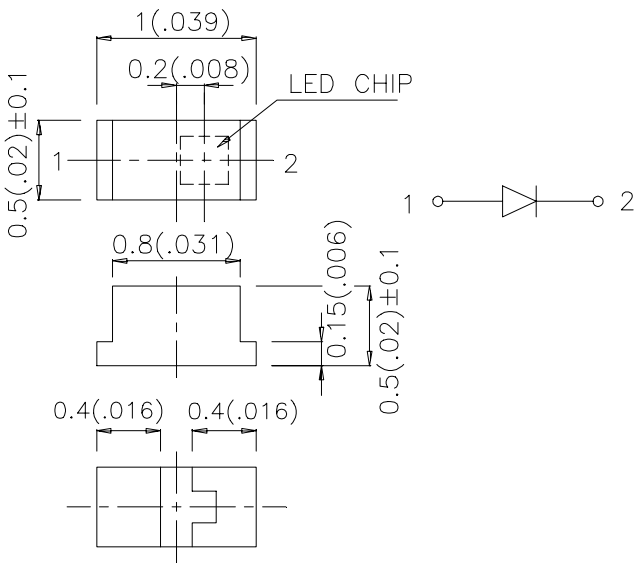
Features

- 1.0mmx0.5mm SMT LED, 0.5mm 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 ±0.1(0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
KPHHS-1005MGCK	MEGA GREEN (InGaAlP)	WATER CLEAR	18	45	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_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green	574		nm	I_F=20mA
λ D	Dominate Wavelength	Mega Green	570		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	Mega Green	20		nm	I_F=20mA
C	Capacitance	Mega Green	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	Mega Green	2.1	2.5	V	I_F=20mA
I_R	Reverse Current	Mega Green		10	uA	V_R = 5V

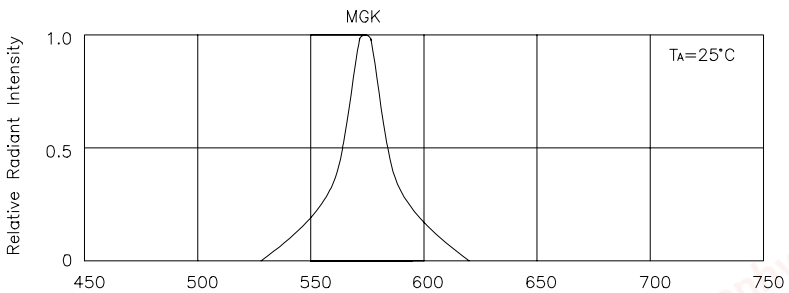
Absolute Maximum Ratings at T_A=25°C

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.

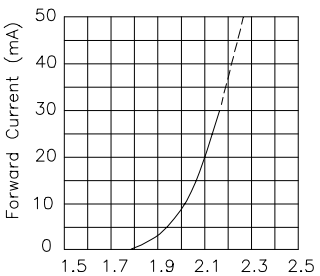
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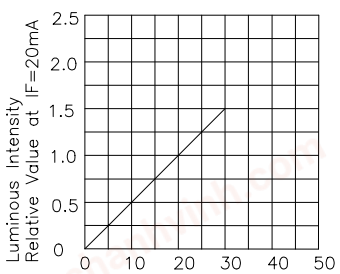


RELATIVE INTENSITY Vs. WAVELENGTH

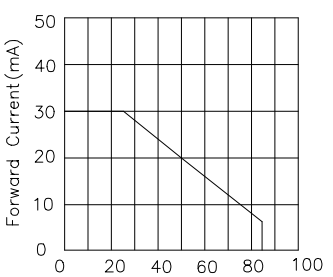
Mega Green KPHHS-1005MGCK



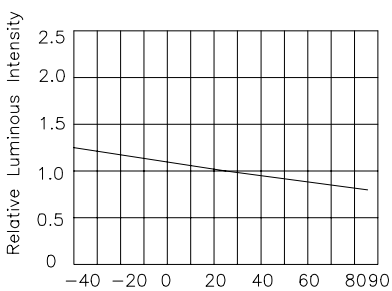
FORWARD CURRENT Vs.
FORWARD VOLTAGE



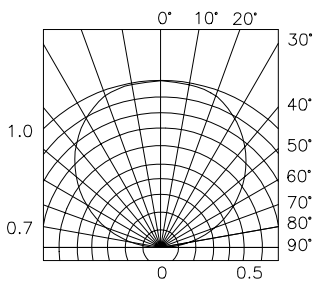
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

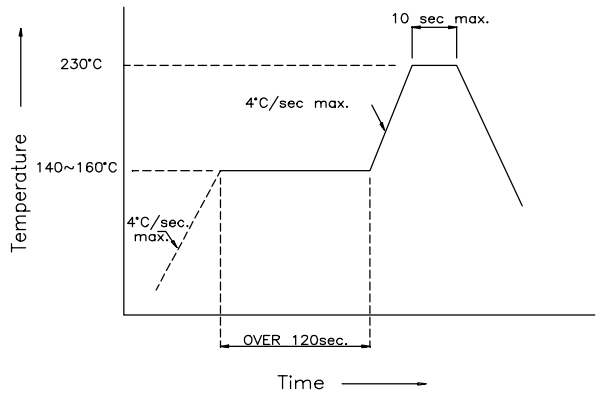
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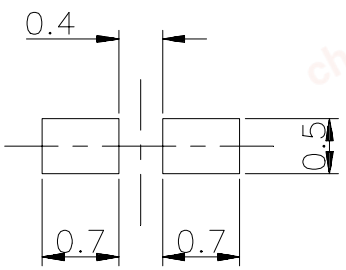
KPHHS-1005MGCK

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)

