3.0x2.0mm SURFACE MOUNT LED LAMP

Part Number: AA3020MGC

Mega Green

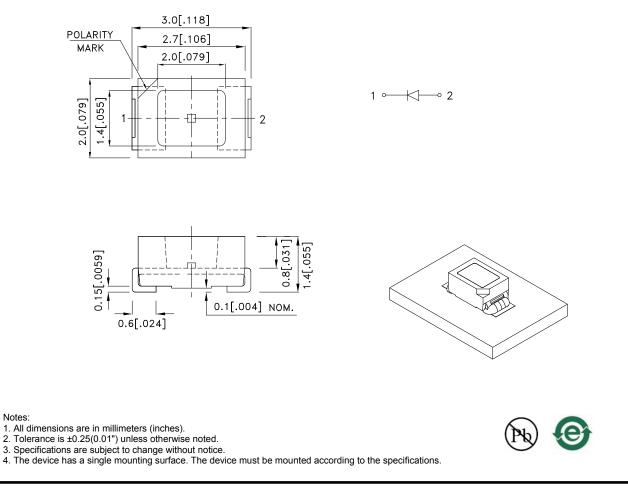
Features

- 3.0mm x 2.0mm, 1.4mm high, only minimum space required.
- Suitable for compact optoelectronic applications.
- Low power consumption.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

Description

The Mega Green source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode.

Package Dimensions



SPEC NO: DSAD1220 APPROVED: WYNEC REV NO: V.3 CHECKED: Allen Liu DATE: SEP/29/2009 DRAWN: J.Yu PAGE: 1 OF 5 ERP: 1201005392

Selection Guide

Concollon Culuo					
Part No.	rt No. Dice Len		lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AA3020MGC	Mega Green (AlGaInP)	WATER CLEAR	36	80	90°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green	574		nm	IF=20mA
λD [1]	Dominant Wavelength	Mega Green	570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Mega Green	26		nm	I⊧=20mA
С	Capacitance	Mega Green	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Mega Green	2.1	2.5	V	I⊧=20mA
lr	Reverse Current	Mega Green		10	uA	Vr=5V

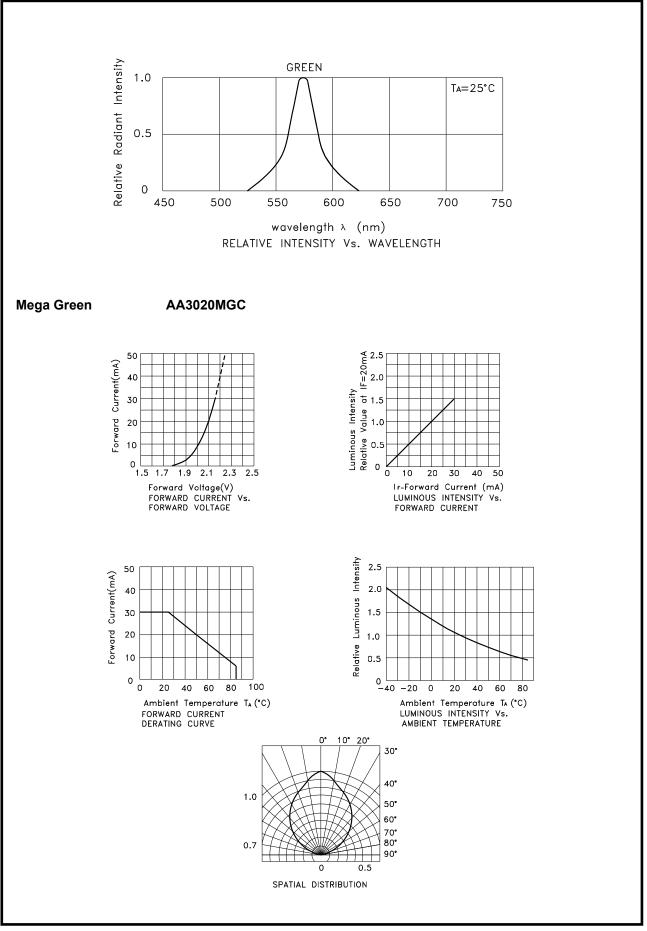
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Mega Green			
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

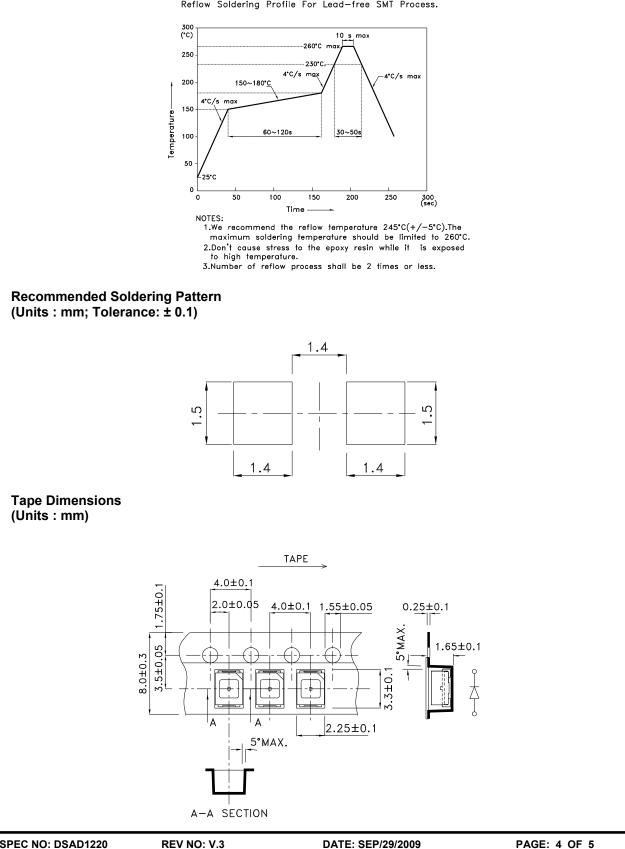
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



AA3020MGC

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



REV NO: V.3 CHECKED: Allen Liu

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