### 3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTD-3216MGC Mega Green

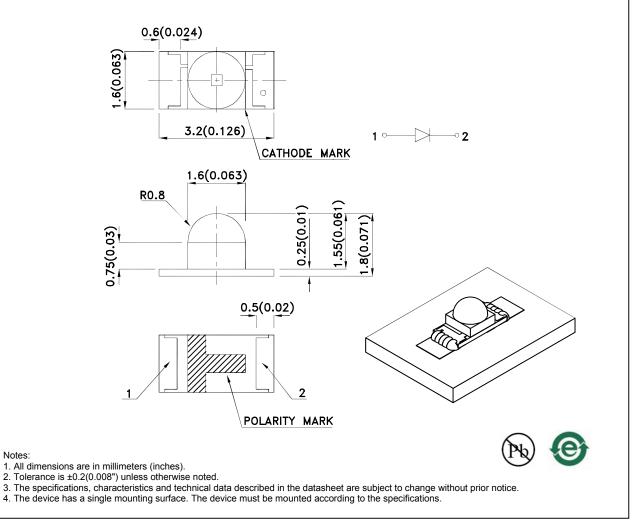
#### Features

- 3.2mmX1.6mm SMT LED, 1.8mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

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

### **Package Dimensions**



SPEC NO: DSAG9107 APPROVED: WYNEC REV NO: V.20B CHECKED: Allen Liu DATE: AUG/13/2013 DRAWN: Y.Liu PAGE: 1 OF 5 ERP: 1203002237

### Soloction Guido

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPTD-3216MGC	Mega Green (AlGaInP)	Water Clear	200	450	35°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green	574		nm	I⊧=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.

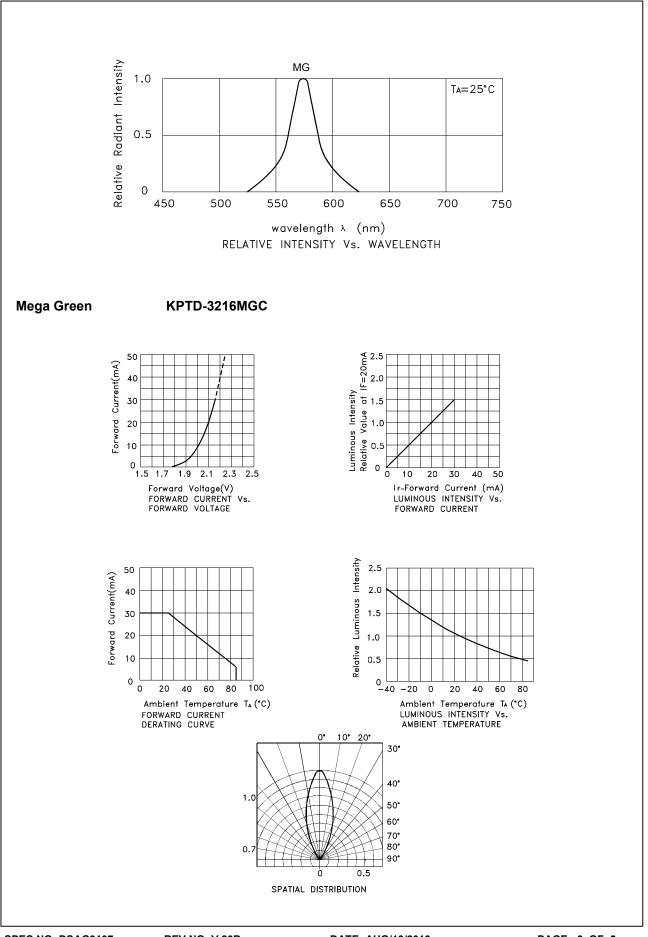
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

### 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:

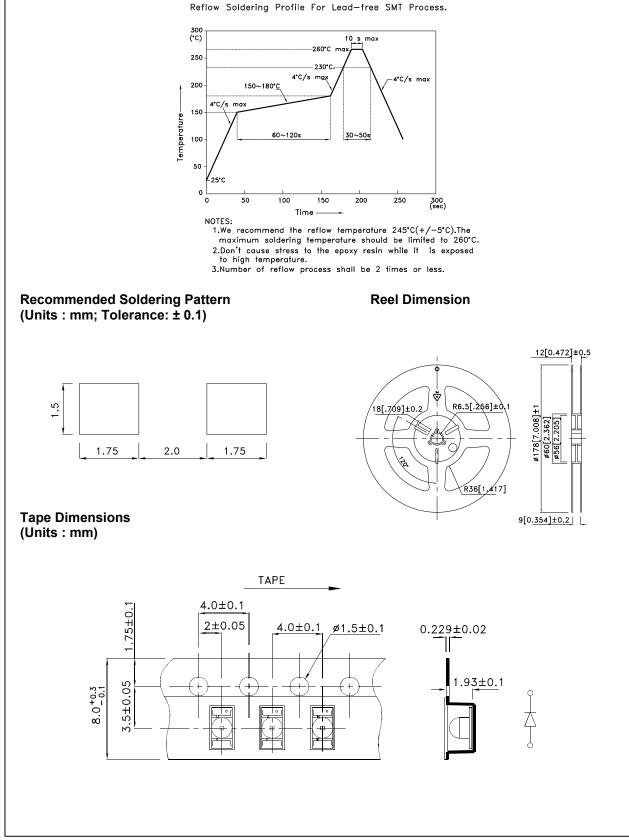
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



### KPTD-3216MGC

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.



DATE: AUG/13/2013 DRAWN: Y.Liu

