

### **Excellent Integrated System Limited**

Stocking Distributor

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Kingbright APTD3216MGC

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



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

Part Number: APTD3216MGC Meg

Mega Green

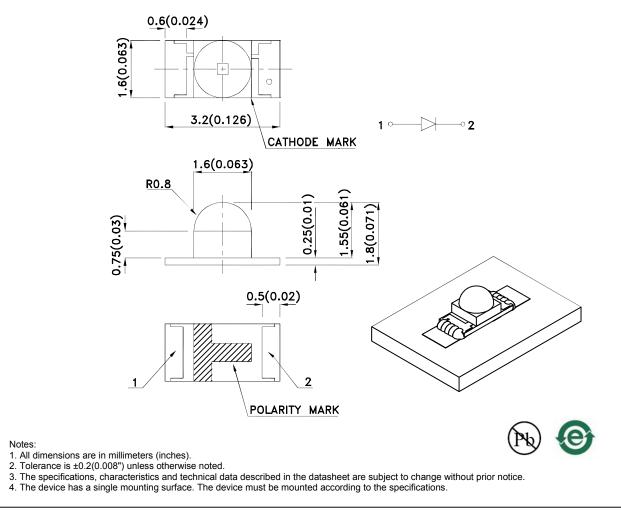
#### Features

- 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





#### Selection Guide

Part No.	Dice	Dice Lens Type Iv (mcd) [2] @ 20mA			Viewing Angle [1]	
			Min.	Тур.	201/2	
APTD3216MGC	Mega Green (AlGaInP)	Water Clear	200	450	35°	

Notes:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

2. Luminous intensity/ luminous Flux: +/-15%.

3. 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	IF=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.

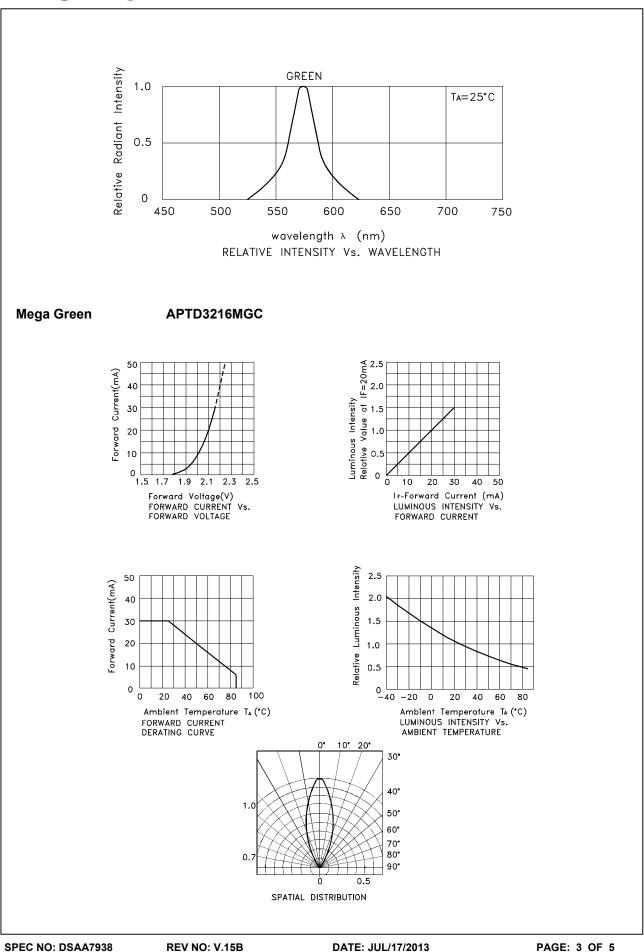
Parameter	Mega Green	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

### Absolute Maximum Ratings at TA=25°C

Note:

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

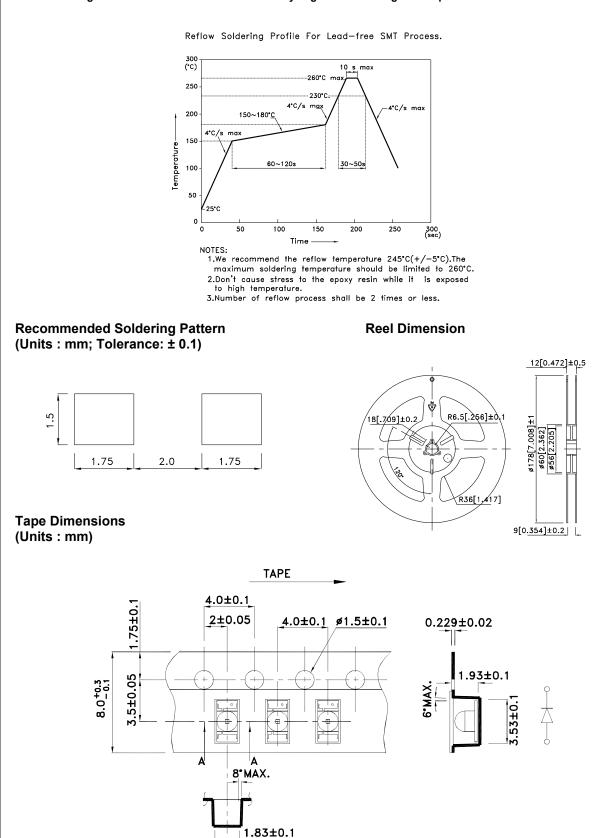






### APTD3216MGC

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.



A-A SECTION



