

Part Number: APTR3216MGC



ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

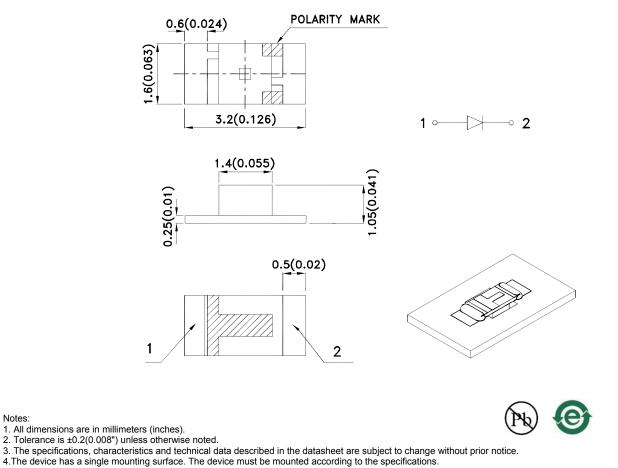
#### **Features**

- 3.2mmx1.6mm SMD LED,1.05mm thickness.
- Low power consumption.
- · Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- · RoHS compliant.

#### Descriptions

- The Mega Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipment and machinery must be electri cally grounded.

#### **Package Dimensions**



SPEC NO: DSAC1601 **APPROVED: Wynec** 

Notes:

REV NO: V.13B **CHECKED:** Allen Liu

DATE: OCT/28/2016 **DRAWN: L.T.Zhang** 

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#### Selection Guide

Selection Guide					
Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APTR3216MGC	Mega Green (AlGaInP)	Water Clear	20	60	140°

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 CIE127-2007 standards.

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

Symbol	Parameter	Emitting Color	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 CIE127-2007 standards.

4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

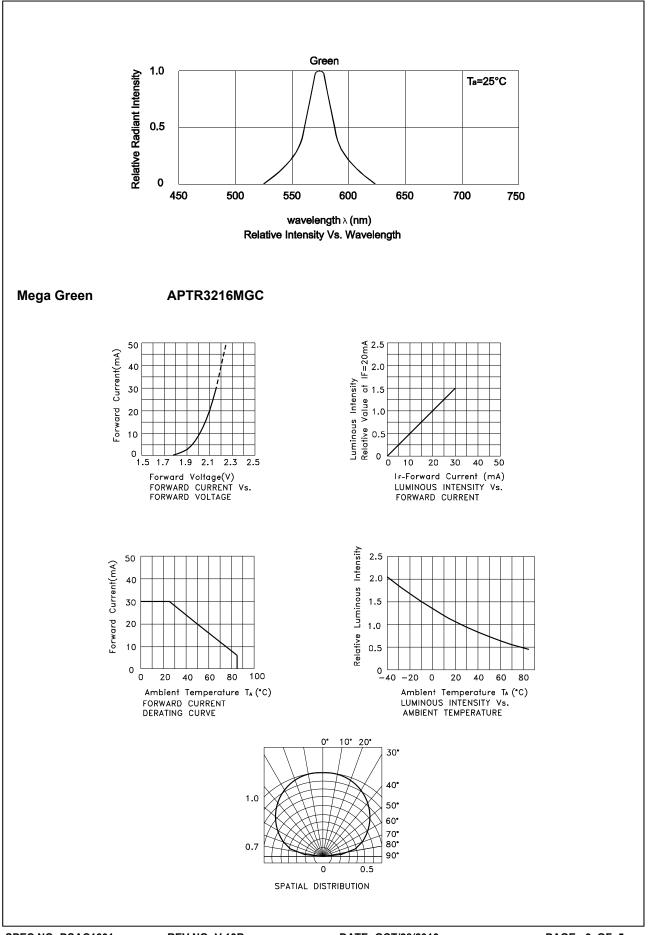
#### Absolute Maximum Ratings at TA=25°C

Parameter	Values	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			

Notes:

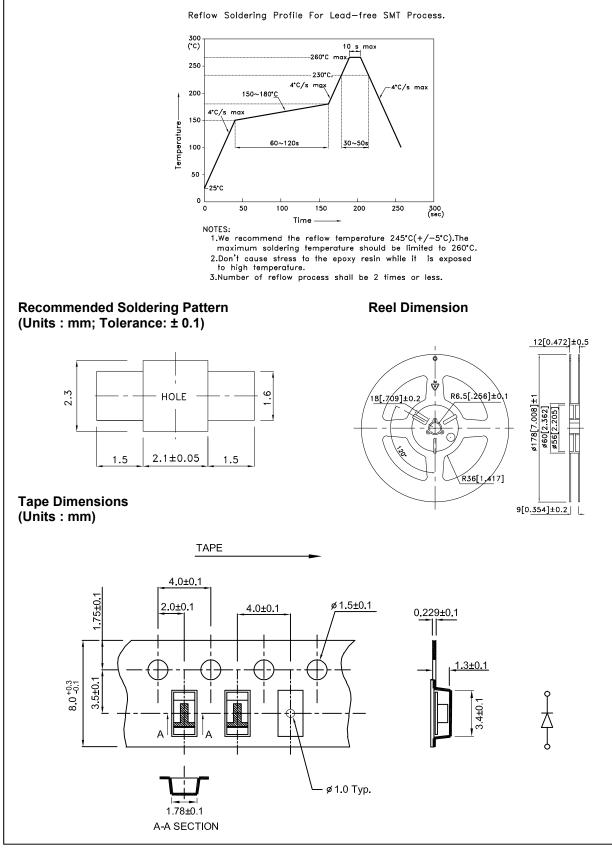
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity - Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

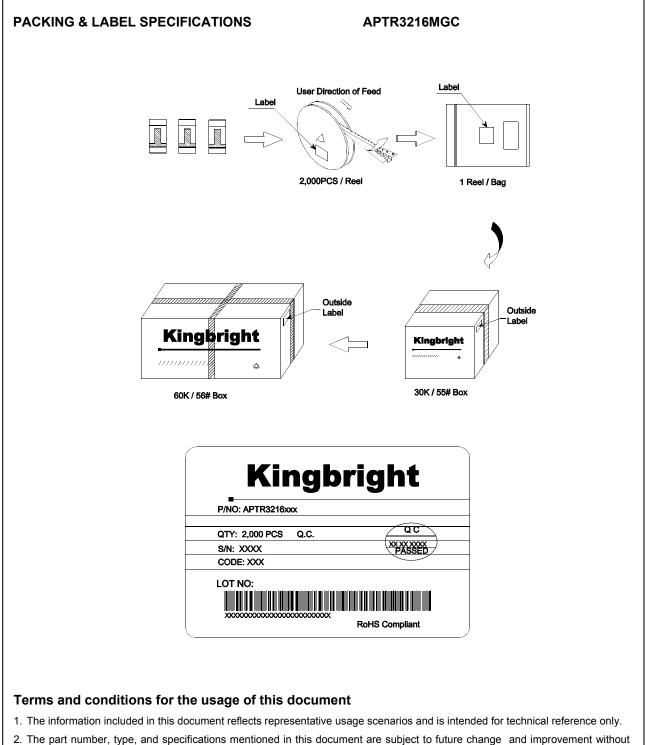


#### APTR3216MGC

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.



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