

APTB1612ESGC HIGH EFFICIENCY RED/ SUPER BRIGHT GREEN

Features

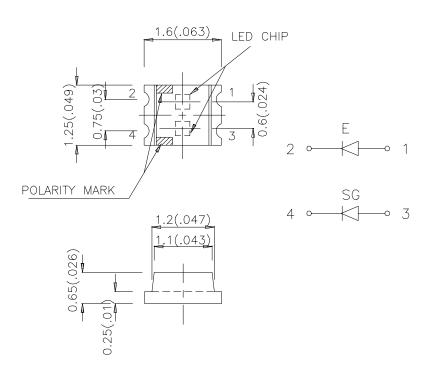
- •1.6mm x1.2mm SMT LED, 0.65mm THICKNESS.
- •BI -COLOR,LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE: 2000PCS/REEL.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.0079")$ unless otherwise noted.
- 3. Lead spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20 mA		Viewing Angle
			Min.	Тур.	201/2
APTB1612ESGC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	5	12	120°
	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	3	12	

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green	627 565		nm	IF=20mA	
λD	Dominate Wavelength	High Efficiency Red Super Bright Green	625 568		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Super Bright Green	45 30		nm	IF=20mA	
С	Capacitance	High Efficiency Red Super Bright Green	15 15		pF	VF=0V;f=1MHz	
V_{F}	Forward Voltage	High Efficiency Red Super Bright Green	2.0 2.2	2.5 2.5	V	IF=20mA	
l _R	Reverse Current	All		10	uA	VR = 5V	

Absolute Maximum Ratings at T_A=25°C

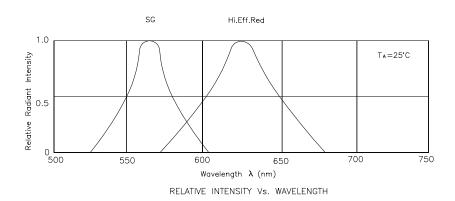
Parameter	High Efficiency Red	Super Bright Green	Units		
Power dissipation	105	105	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	5	5	V		
Operating/Storage Temperature	-40°C To +85°C				

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

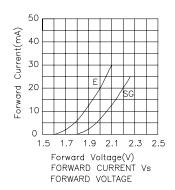
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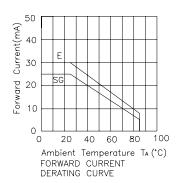
Note: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

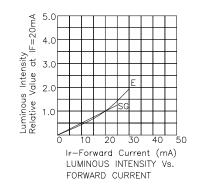


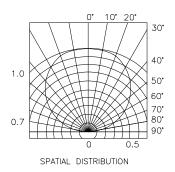


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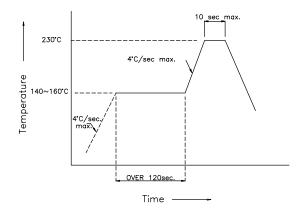


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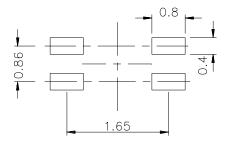


APTB1612ESGC SMT Reflow Soldering Instructions

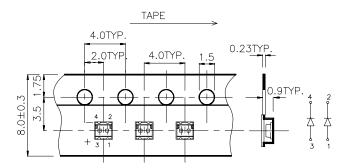
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units: mm)



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