

APBA3010ESGW

Features

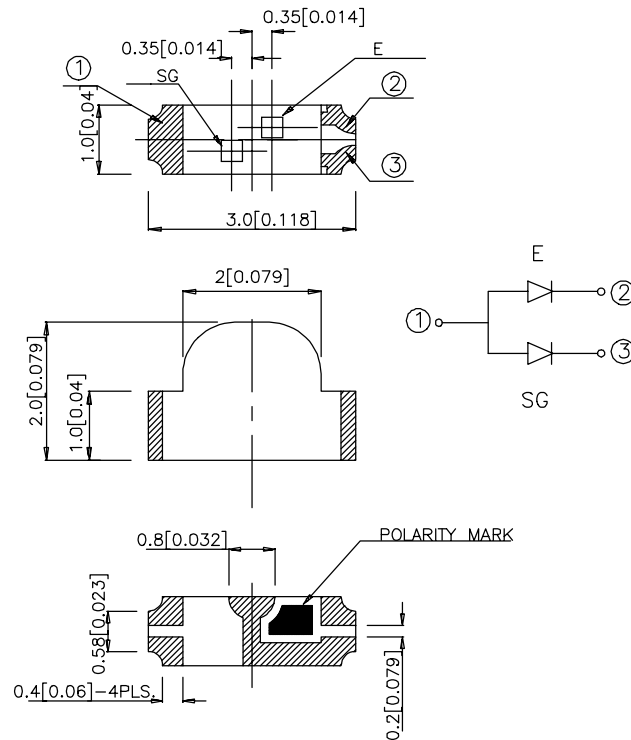
- 3.0mmx1.0mm SMT LED, 2.0mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

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 ± 0.1 (0.004") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	I _v (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
APBA3010ESGW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	5	12	140°
	SUPER BRIGHT GREEN (GaP)		5	12	

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	High Efficiency Red Super Bright Green	625 565		nm	I _F =20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Super Bright Green	45 30		nm	I _F =20mA
C	Capacitance	High Efficiency Red Super Bright Green	12 45		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Super Bright Green	2.0 2.2	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	All		10	μA	V _R = 5V

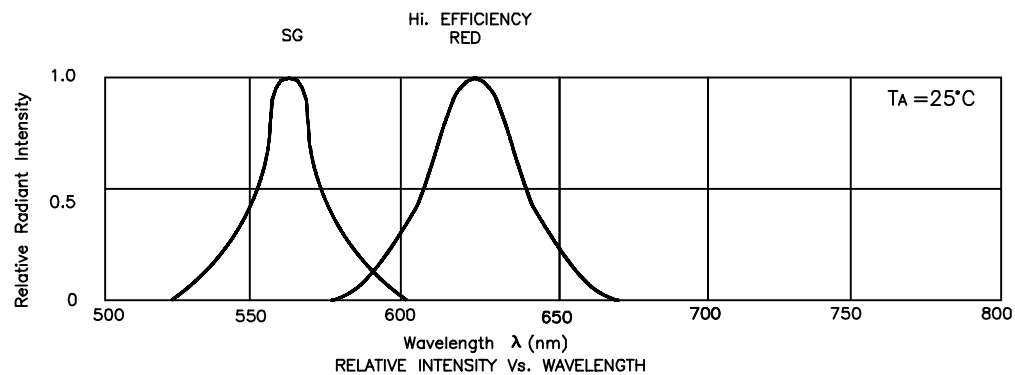
Absolute Maximum Ratings at T_A=25°C

Parameter	High Efficiency Red	Super Bright Green	Units
Power dissipation	105	105	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	150	150	mA
Reverse Voltage	5	5	V
Operating/Storage Temperature	-40°C To +85°C		

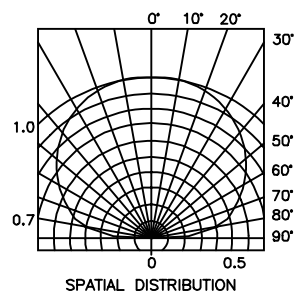
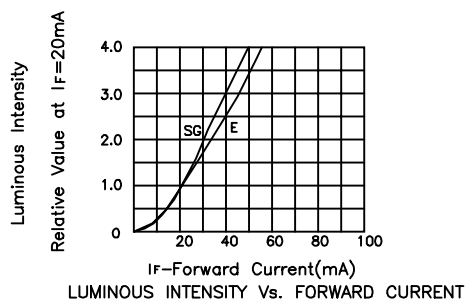
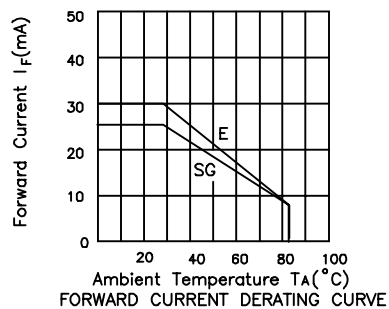
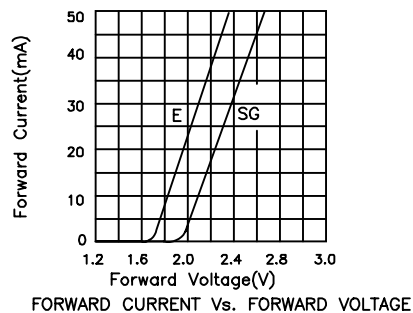
Notes:

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

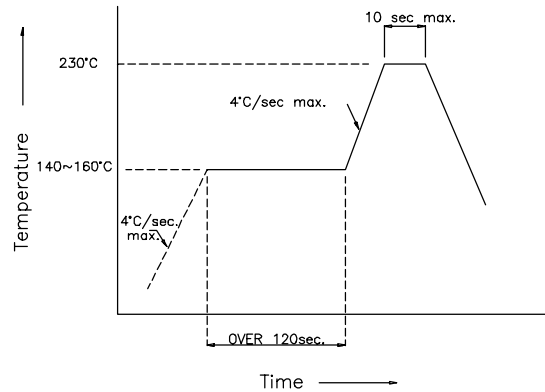
2. 4mm below package base.



APBA3010ESGW High Efficiency Red / Super Bright Green

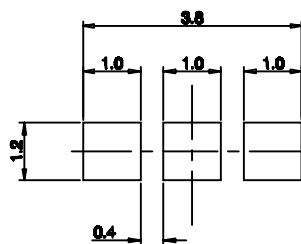


APBA3010ESGW Reflow Soldering Instructions

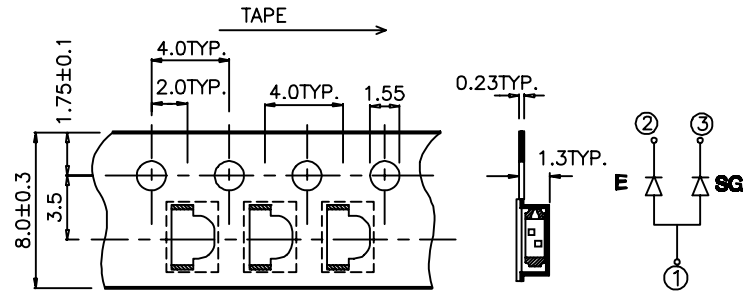


APBA3010ESGW Recommended Soldering Pattern (Units : mm)

FOR REFLOW SOLDERING



APBA3010ESGW Tape Specifications (Units : mm)



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