

APBA03-41PBWA

BLUE

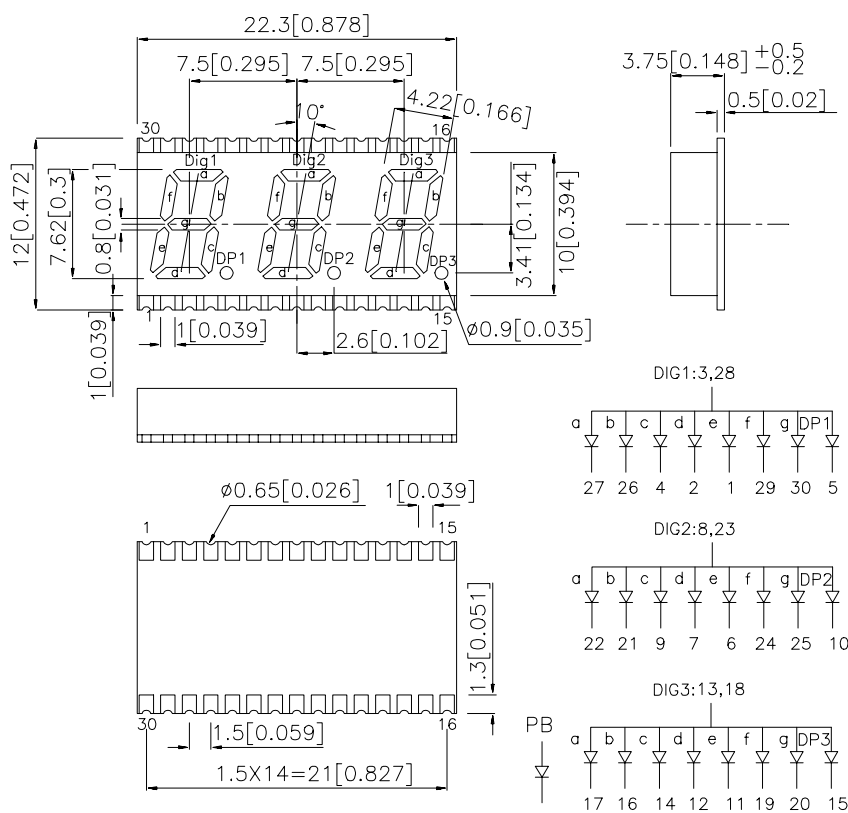
## Features

- 0.3 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- GRAY FACE,WHITE SEGMENT.
- PACKAGE: 800PCS/REEL.

### Description

The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

### Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.  
2. Specifications are subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 10 mA		Description
			Min.	Typ.	
APBA03-41PBWA	BLUE(InGaN)	WHITE DIFFUSED	1900	7400	Common Anode,Rt. Hand Decimal

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

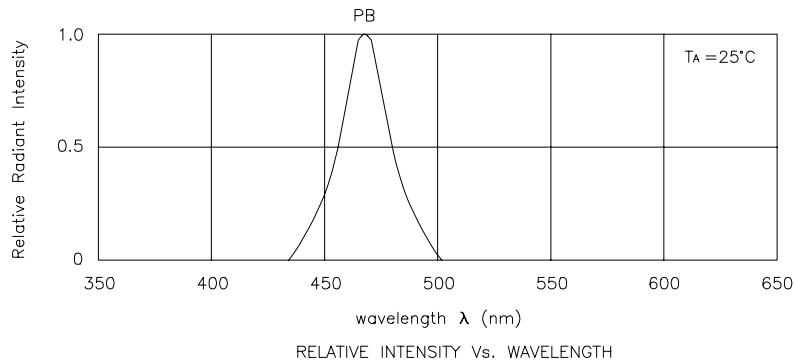
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Blue	468		nm	I <sub>F</sub> = 20mA
$\lambda_D$	Dominate Wavelength	Blue	470		nm	I <sub>F</sub> = 20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Blue	25		nm	I <sub>F</sub> = 20mA
C	Capacitance	Blue	65		pF	V <sub>F</sub> = 0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Blue	3.65	4.2	V	I <sub>F</sub> = 20mA
I <sub>R</sub>	Reverse Current	Blue		10	uA	V <sub>R</sub> = 5V

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

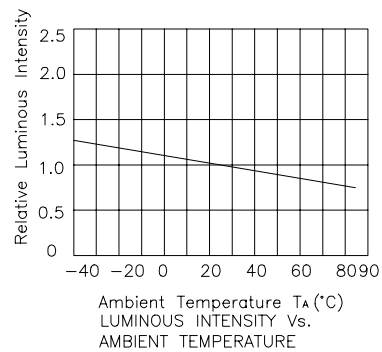
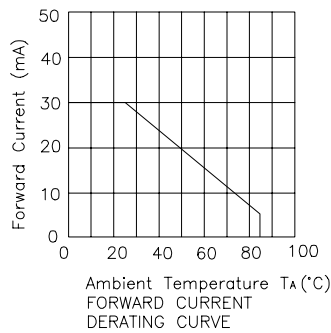
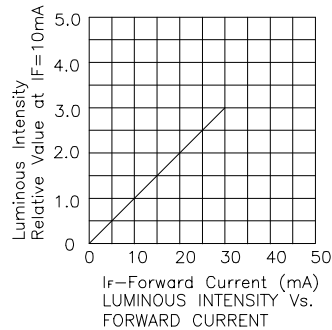
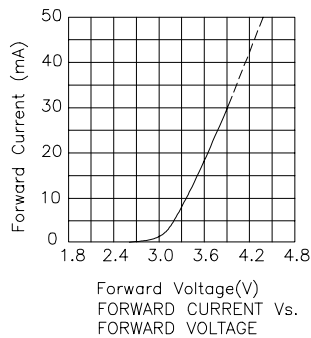
Parameter	Blue	Units
Power dissipation	102	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

Note:

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



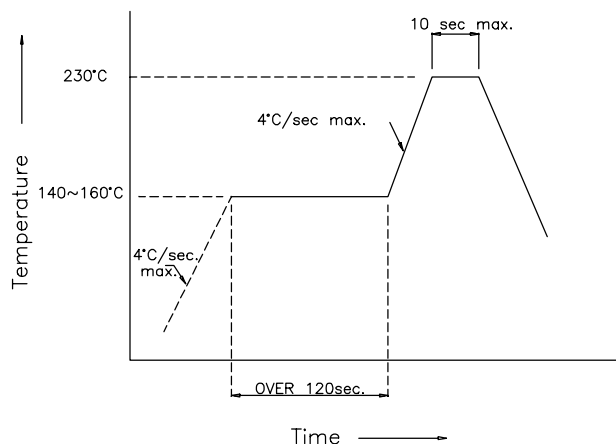
Blue APBA03-41PBWA



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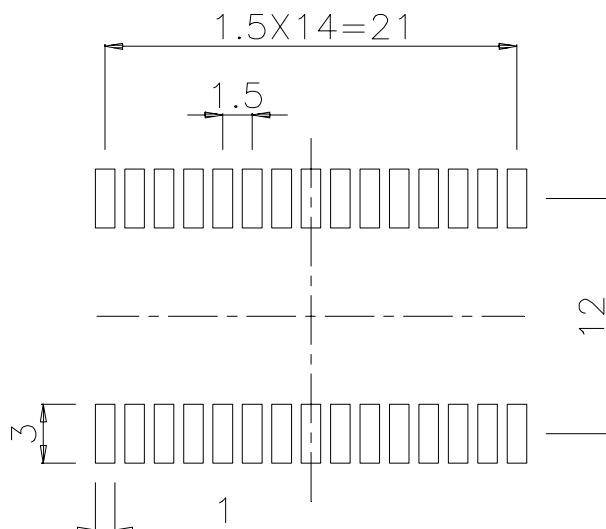
### SMT Reflow Soldering Instruction

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 Specification  
(Units : mm)

