

AP1608PBCK

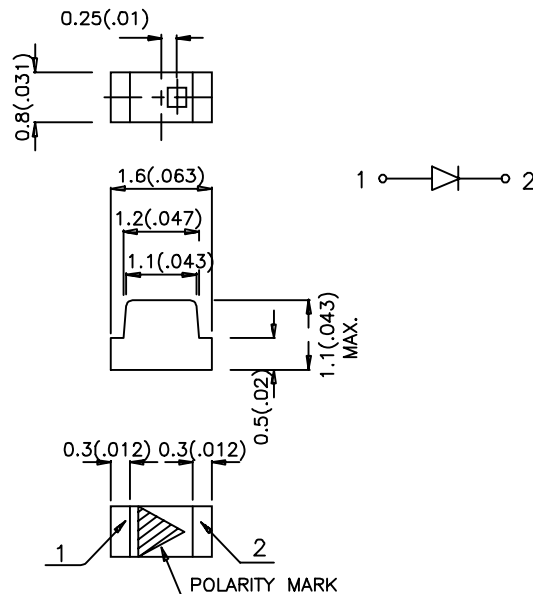
Features

- 1.6mmx0.8mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

Description

The Blue source color devices are made with InGaN on SiC 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	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	θ1/2
AP1608PBCK	BLUE (InGaN)	WATER CLEAR	10	30	120°

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

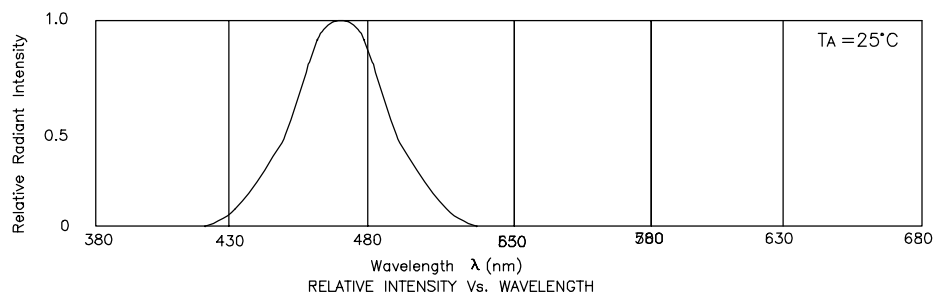
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Blue	468		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Blue	26		nm	IF=20mA
C	Capacitance	Blue	110		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Blue	3.5	4.0	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

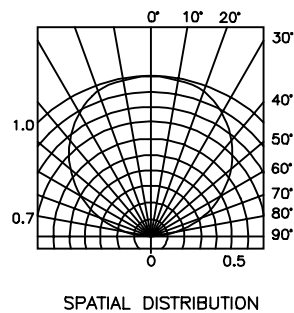
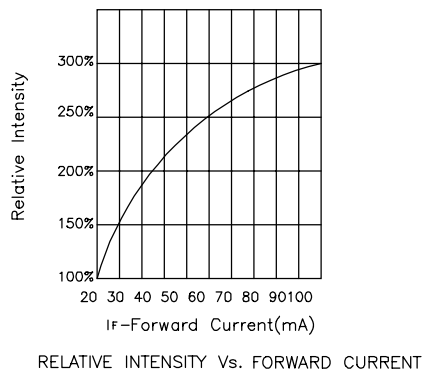
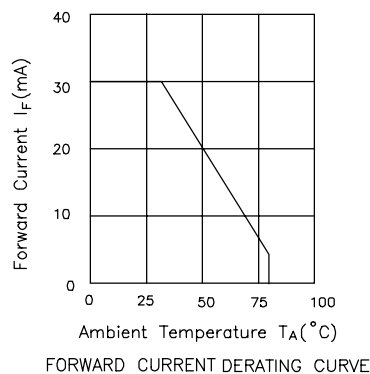
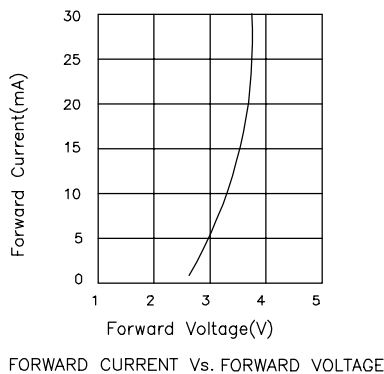
Parameter	Blue	Units
Power dissipation	102	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operation Temperature	-20°C To +80°C	
Storage Temperature	-30°C To +85°C	

Note:

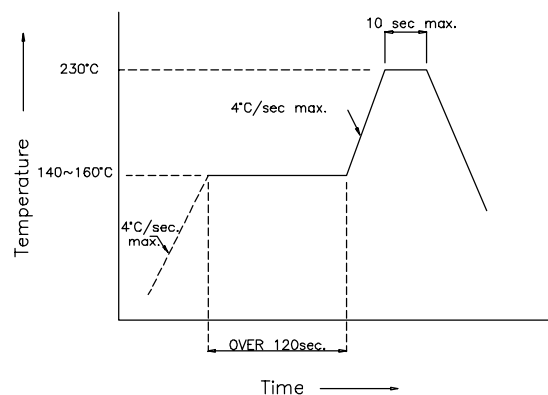
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



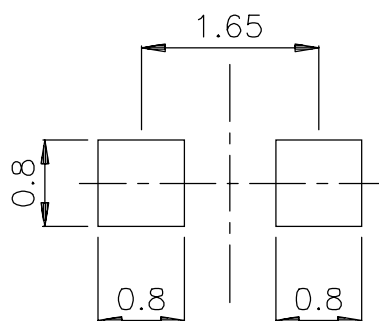
Blue AP1608PBCK



AP1608PBCK SMT Reflow Soldering Instructions



AP1608PBCK Recommended Soldering Pattern (Units : mm)



AP1608PBCK Tape Specifications
(Units : mm)

