AA4040PBC/G

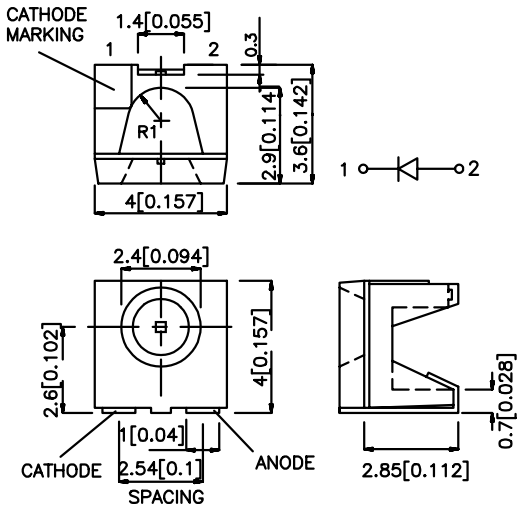
Features

- ●SINGLE COLOR.
- ●SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- ●AVAILABLE ON TAPE AND REEL.
- ●IDEAL FOR BACKLIGHTING.
- ●PACKAGE : 500PCS / REEL.

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 ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
AA4040PBC/G	BLUE (InGaN)	WATER CLEAR	70	200	90°

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

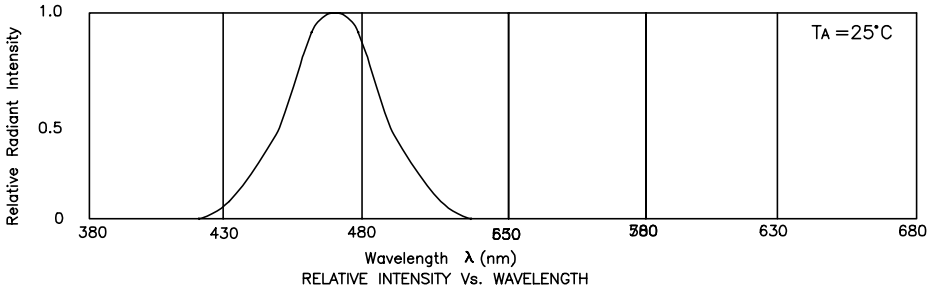
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λ D	Dominate Wavelength	Blue	475		nm	IF=20mA
Δ1/2	Spectral Line Halfwidth	Blue	26		nm	IF=20mA
C	Capacitance	Blue	110		pF	VF=0V;f=1MHz
V_F	Forward Voltage	Blue	3.6	4.0	V	IF=20mA
I_R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

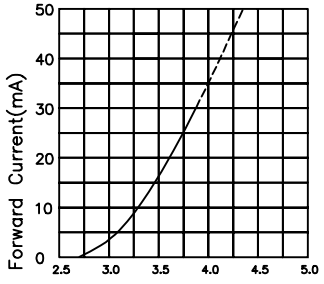
Parameter	Blue	Units
Power dissipation	102	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operation/Storage Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

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

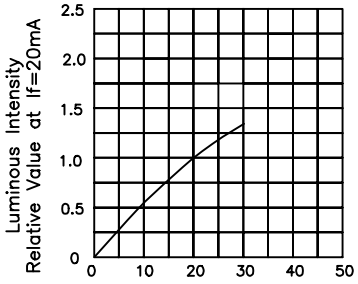


RELATIVE INTENSITY Vs. WAVELENGTH

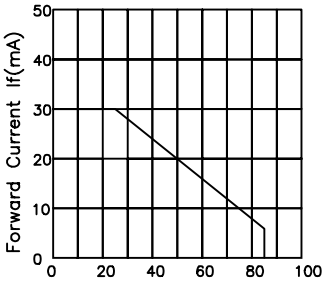
Blue AA4040PBC/G



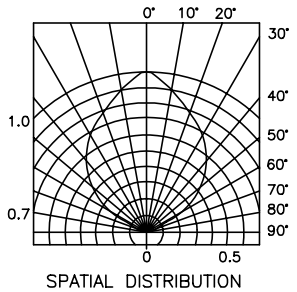
FORDWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



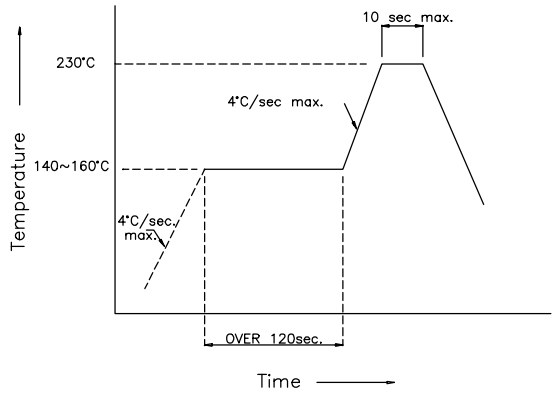
FORWARD CURRENT
DERATING CURVE



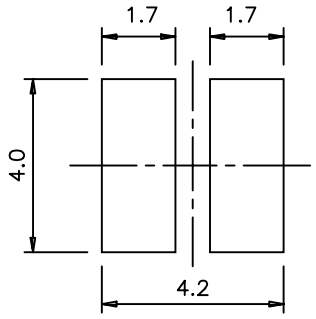
SPATIAL DISTRIBUTION

AA4040PBC/G 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."



AA4040PBC/G Recommended Soldering Pattern (Units : mm)



AA4040PBC/G Tape Specifications
(Units : mm)