

AA3528PBC BLUE

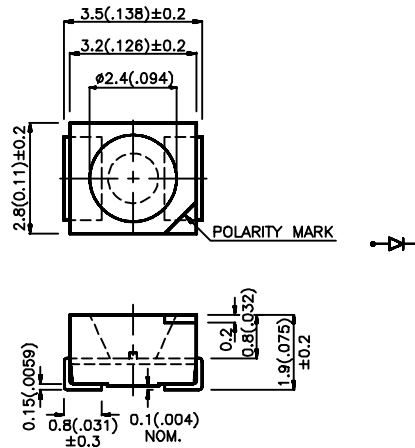
Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.

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 subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	I _v (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
AA3528PBC	BLUE (InGaN)	WATER CLEAR	30	55	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

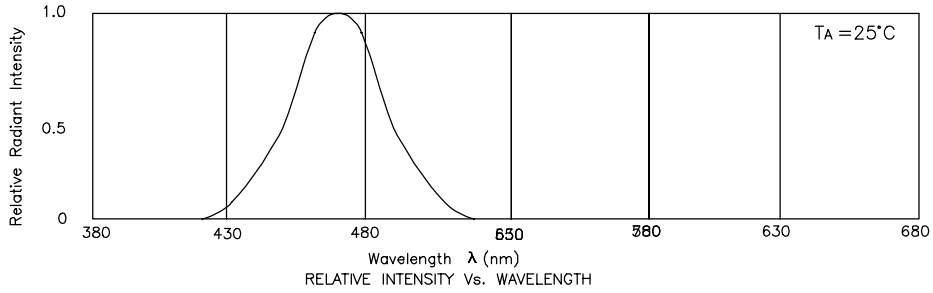
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Blue	468		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Blue	26		nm	IF=20mA
C	Capacitance	Blue	110		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Blue	3.5	4.0	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

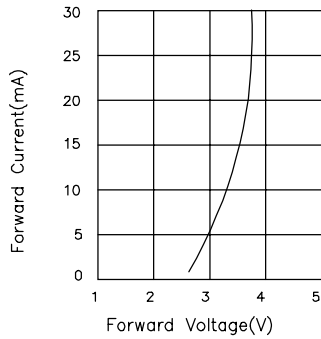
Parameter	Blue	Units
Power dissipation	102	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operation/Storage Temperature	-40°C To +85°C	

Note:

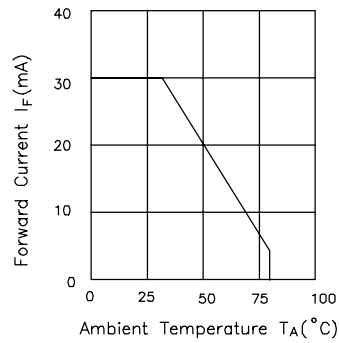
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



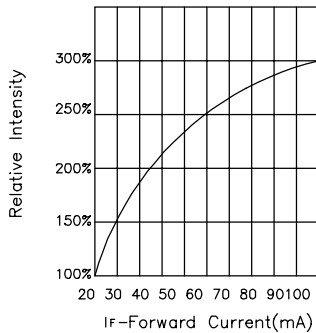
Blue AA3528PBC



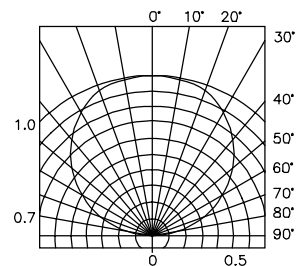
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

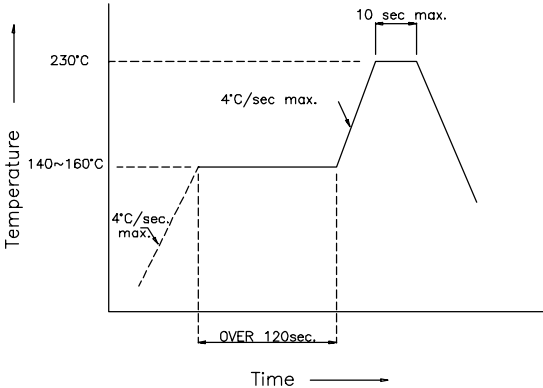


RELATIVE INTENSITY Vs. FORWARD CURRENT

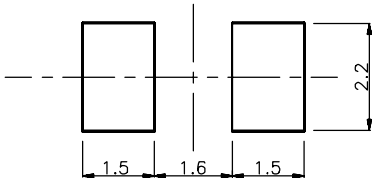


SPATIAL DISTRIBUTION

AA3528PBC SMT Reflow Soldering Instruction



AA3528PBC Recommended Soldering Pattern (Units : mm)



AA3528PBC Tape Specifications (Units : mm)

