

APH1005MBCK

Features

- 1.0mmx0.5mm SMT LED, 0.7mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

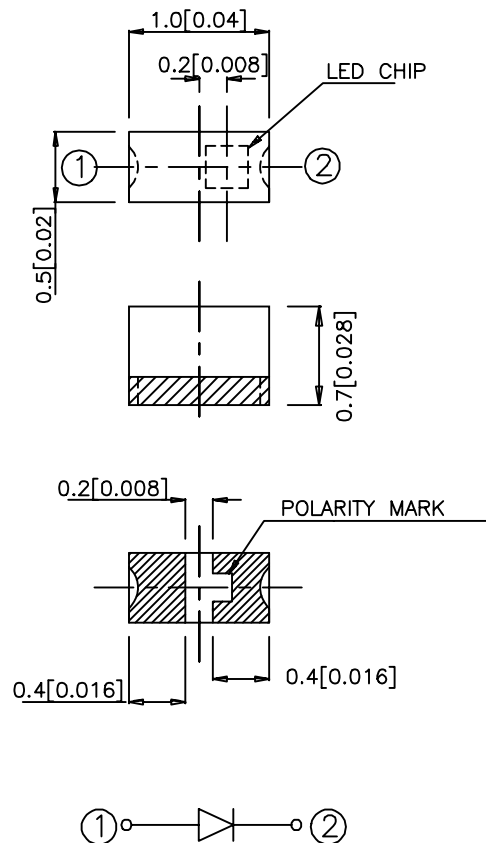
Description

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

Static electricity and surge damage the LEDs. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

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.	2θ1/2
APH1005MBCK	BLUE (GaN)	WATER CLEAR	2.6	5	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

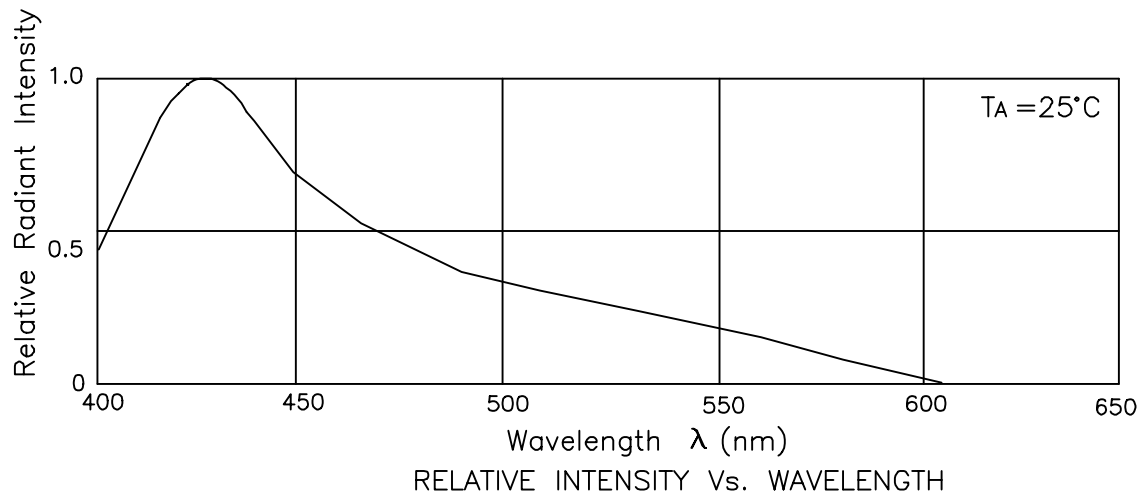
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Blue	430		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Blue	65		nm	IF=20mA
C	Capacitance	Blue	100		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Blue	3.8	4.5	V	IF=20mA
I _R	Reverse Current	All		10	μA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

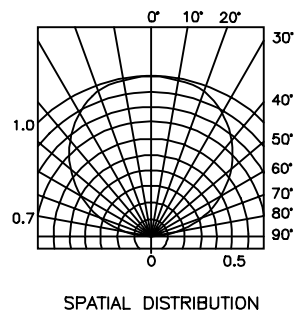
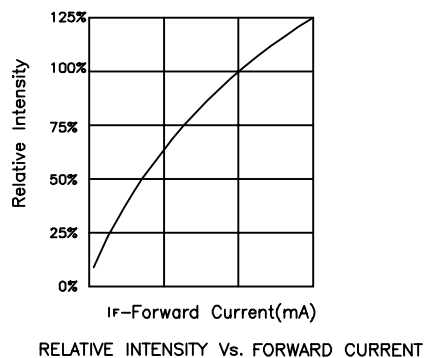
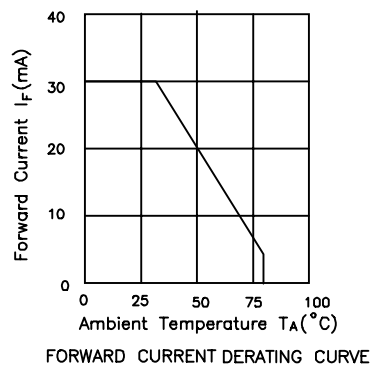
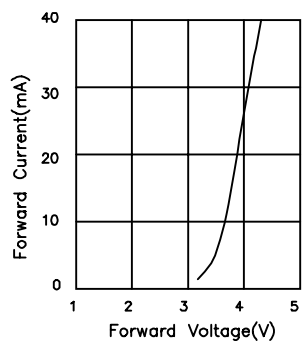
Parameter	Blue	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	200	mA
Reverse Voltage	5	V
Operation/Storage Temperature	-40°C To +85°C	

Note:

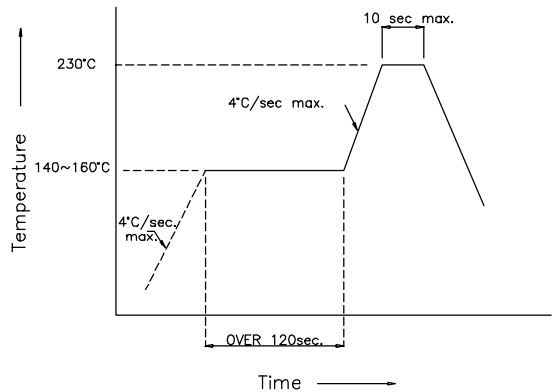
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



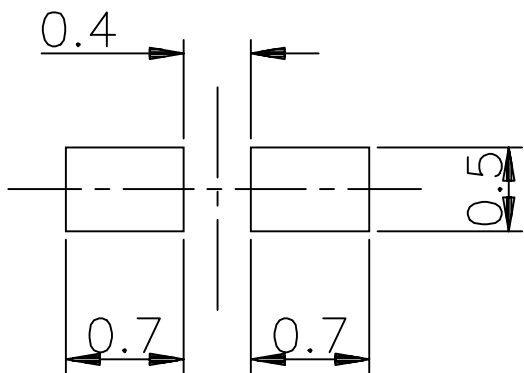
Blue APH1005MBCK



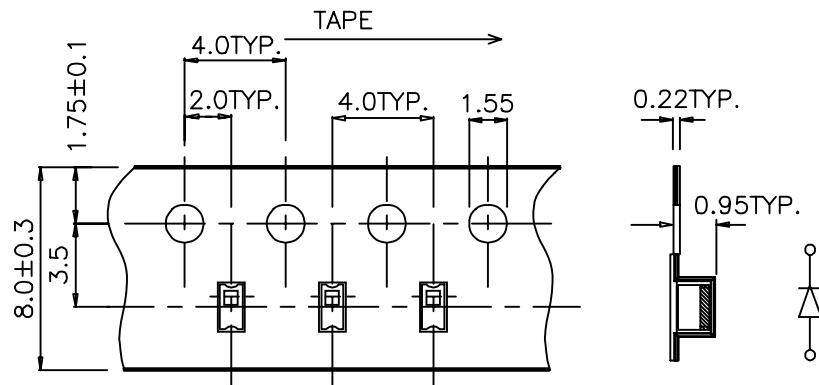
APH1005MBCK SMT Reflow Soldering Instructions



APH1005MBCK Recommended Soldering Pattern
(Units : mm)



APH1005MBCK Tape Specifications (Units : mm)



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