

Package Dimensions

3.5x2.8mm SMD CHIP LED LAMP

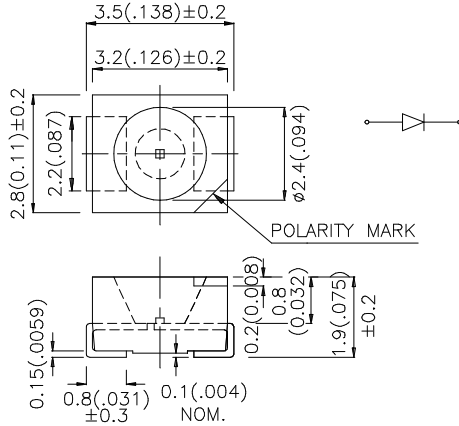
EA3528MBC

BLUE



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHT.
- PACKAGE : 1500PCS / REEL.

Notes:

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

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.

Selection Guide

Part No.	Emitting Color +Material	λD(nm)	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
				Min.	Typ.	
EA3528MBC	GaN	466	WATER CLEAR	4	15	2 θ 1/2

Note:

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

DATA NO :EA0436

REV NO :V1

DATE :MAR/12/2004

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

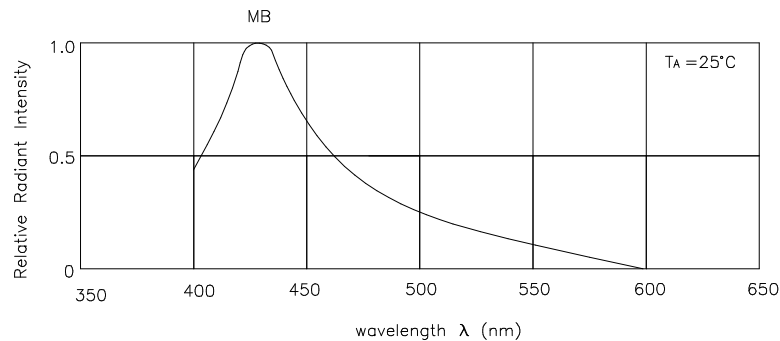
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Blue	430		nm	$I_F=20\text{mA}$
λ_D	Dominate Wavelength	Blue	466		nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Blue	60		nm	$I_F=20\text{mA}$
C	Capacitance	Blue	100		pF	$V_F=0\text{V}; f=1\text{MHz}$
V_F	Forward Voltage	Blue	3.8	4.5	V	$I_F=20\text{mA}$
I_R	Reverse Current	Blue		10	μA	$V_R = 5\text{V}$

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

Parameter	Blue	Units
Power dissipation	135	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

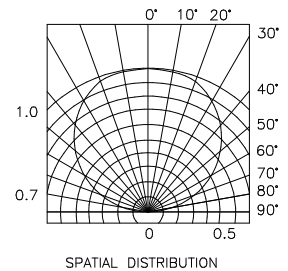
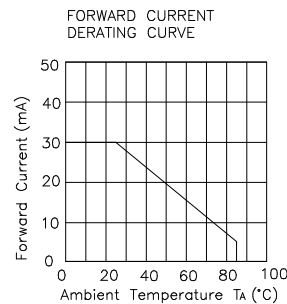
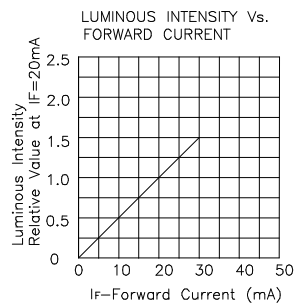
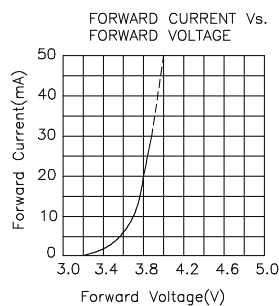
Note:

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



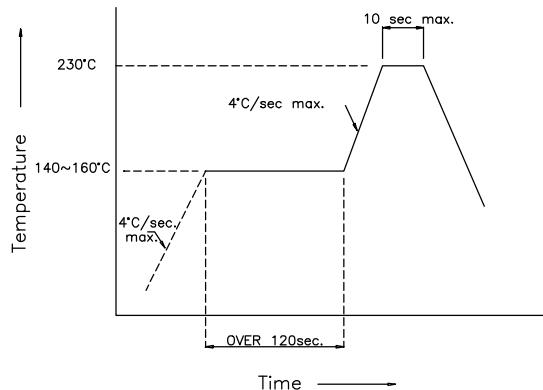
RELATIVE INTENSITY Vs. WAVELENGTH

Blue EA3528MBC

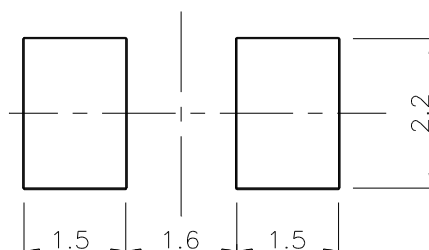


EA3528MBC SMT Reflow Soldering Instructions

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 Specifications (Units : mm)

