Specification No.	
Date	2002. 04.01

SPECIFICATIONS

5 → BLUE LED LAMP

MODEL: ATBB-L52C

Designed by	Checked by	Approved by





☐ MODEL: ATBB-L52C

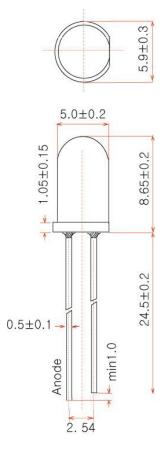
1. Features

- 1-1. InGaN Blue Chip
- 1-2. 5mm all epoxy resin mold type
- 1-3. Colorless Cylinder type LED lamp
- 1-4. Ultra luminous intensity

2. Application

- 2-1. LED Display
- 2-2. Illumination device
- 2-3. Back Light for Signboard

3. Dimension



Unit: mm

- ▶ Description :
- •. 5mm, 20° Water clear type
- Designed for Ultra high brightness



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4. Absolute maximum ratings and Characteristics

4 - 1 Absolute maximum ratings

Ta=25℃

Items	Symbols	Ratings	Units	
Forward Current	lF	30	mA	
Pulse Forward Current *1	lfP	50	mA	
Power Dissipation	P _D	75	mW	
Reverse Voltage	VR	5	Vr	
Operating Temperature	Topr	-20 ~ +75	°C	
Storage Temperature	Tstg	-30 ~ +100	°C	
Soldering Temperature *2	T _{SOL}	260 ±5℃	${\mathbb C}$	

^{*1)} Pulse Width = 100 μ sec, Duty \leq 10%

4 - 2 Optical and Electrical Characteristics

Ta=25℃

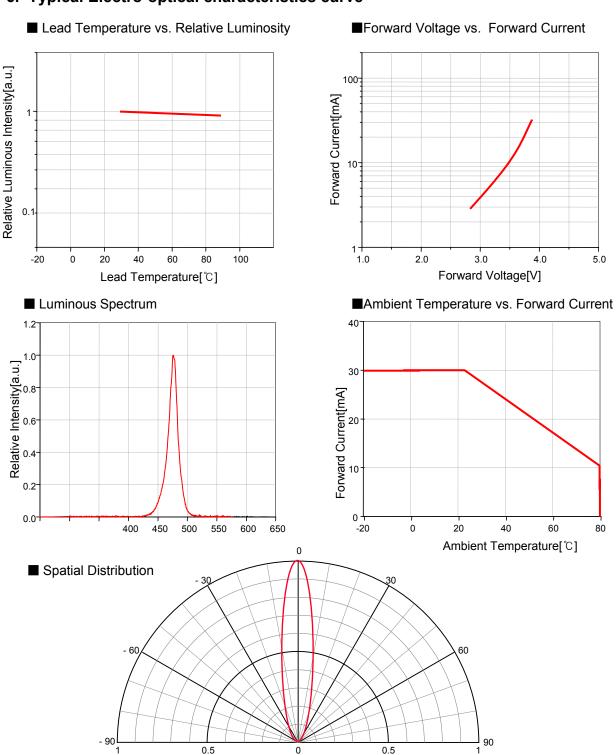
Item	Symbol	Condition	Min	Тур	Max	Unit
Forward Voltage	V_{F}	I _F =20[mA]	ı	3.4	3.8	V
Reverse Current	I _R	V _R =5[V]	-	-	10	μA
Luminous Intensity	I _V	I _F =20[mA]	2500	3500	-	mcd
Dominant Wavelength	λd	I _F =20[mA]	465	470	475	
Spectral Linewidth	Δλ	I _F =20[mA]	ı	17	-	nm
Viewing Angle	2⊖ _{1/2}	I _F =20[mA]		20		deg

^{*2) 5}sec at location 3.0mm away from the base of the epoxy bulb



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6. Typical Electro-optical characteristics curve



Data subject to change.



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7. Inspection Standards

- 7 1 In production line, 100% inspection for electro-optical characteristics should be done on following 3 items.
 - VF, IR, Iv
- 7 2 Outgoing inspection be done to the standards as below.
 - MIL-STD-104D, S-3, AQL 1.0%
 - Items: VF, IR, Iv, λp

8. Packing Standards

8 – 1.Taping:

Standard taping provided. Or user's request.

8 - 2 Bulk Packing:

In one vinyl pack, 500 or 1,000 LEDs are inserted. Or user's request.

9. Caution on usage

- 9 1 Be careful never to exceed, even momentarily, the absolute maximum ratings specified in the data sheet.
- 9 2 ACROSENTEC will not be held responsible for any damage to the user that may result from accidents or any other reasons during operation of the user such as use in excess of the absolute maximum ratings, or not keeping the matters that demand special attention.
- 9 3 Store and use where there is no corrosive gas.
- 9 4 The bending or cutting of the lead should be done in room temperature and no force applied on the package.