Specification No.	
Date	2002. 11.22

SPECIFICATIONS

www.DataSheet4U.com

5 Pure Green LED LAMP

MODEL: ATPG-L52C

Designed by	Checked by	Approved by





☐ MODEL: ATPG-L52C

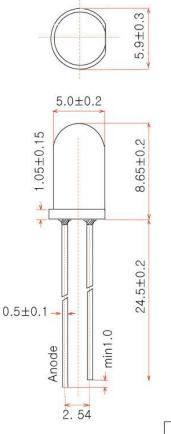
1. Features

- 1-1. InGaN Pure Green 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 / Traffic Guiding signal
- 2-2. Illumination device
- 2-3. Back Light for Signboard

www.DataS 3. Dimension



Unit: mm

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



☐ MODEL : ATPG-L52C

4. Absolute maximum ratings and Characteristics

4 - 1 Absolute maximum ratings

Ta=25℃

	Items	Symbols	Ratings	Units
	Forward Current	lF	30	mA
www.DataSheet4	Pulse Forward Current *1	lfp	50	mA
www.DataSneet4	Power Dissipation	P _D	120	mW
	Reverse Voltage	VR	5	Vr
	Operating Temperature	Topr	-20 ~ +80	${\mathbb C}$
	Storage Temperature	Tstg	-30 ~ +100	${\mathbb C}$
	Soldering Temperature *2	T_{SOL}	260 ±5℃	°C

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

4 - 2 Optical and Electrical Characteristics

Ta=25℃

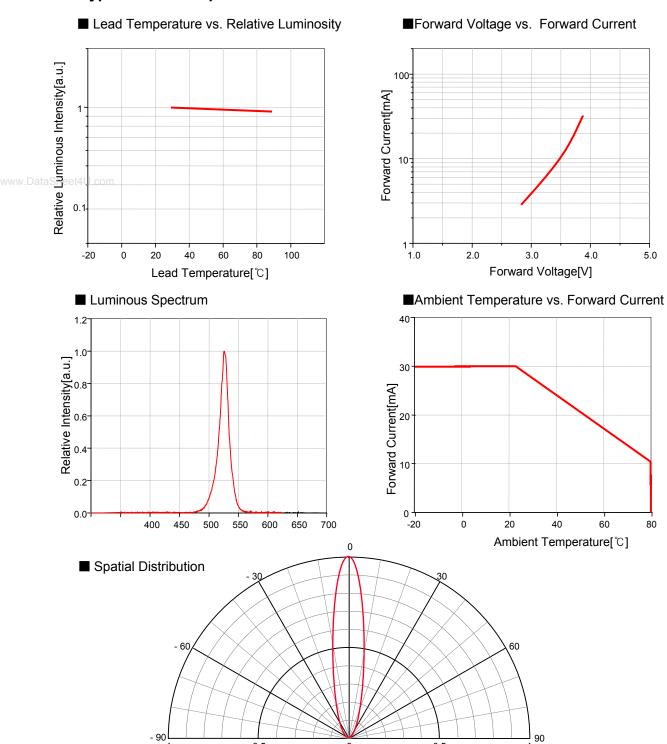
Item	Symbol	Condition	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =20[mA]	ı	3.4	3.8	V
Reverse Current	I _R	V _R =5[V]	-	-	10	μA
Luminous Intensity	I _V	I _F =20[mA]	7000	8400	-	mcd
Dominant Wavelength	λd	I _F =20[mA]	520	525	530	
Spectral Linewidth	Δλ	I _F =20[mA]	ı	26	-	nm
Viewing Angle	2⊖ _{1/2}	I _F =20[mA]		20		deg

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



☐ MODEL: ATPG-L52C

6. Typical Electro-optical characteristics curve



0

Data subject to change.

0.5



☐ MODEL: ATPG-L52C

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.