3MM ROUND LED LAMP [3MM □□□□□]

JZL-G314D-F0

DATA SHEET

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DOCUMENT NO.: **WI-RD-LDS-G314D-F0**
□ □ □ □

RELEASE DATE: **2007- 12-6**
□□□□

VERSION: **A/0**
□□

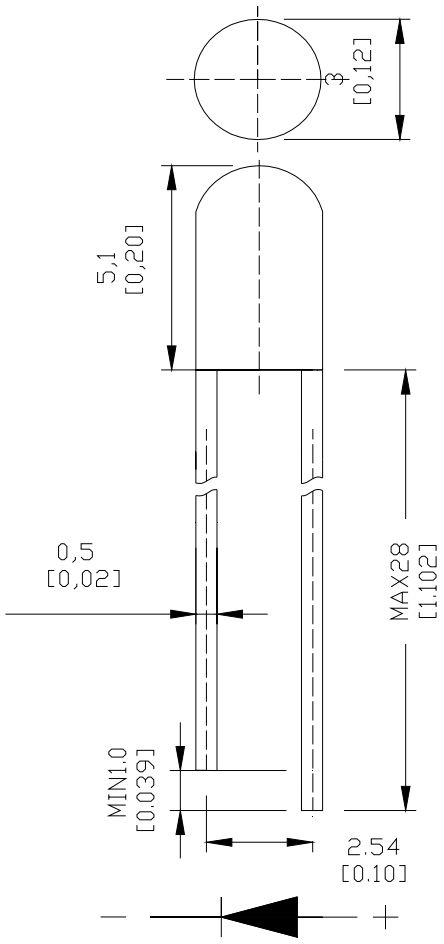
ATTENTION

OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

PART NO [□□□□] .: JZL-G314D-F0

Features:	Application:	□□:	□□□:
■3mm Round lamp	Indicator	■ 3mm □□	□□□
■ Lens color: Green Diffused	Decoration	■ □□□□: □□□□	□□
■ Emitting color: Green	Lighting	■ □□□□: □□	□□
■ viewing angle:60°	others	■ □□□□:60°	□□
■ Leads with stand-offs:NO		■ □□□□□□: □	
■ RoHS compliant		■ □□ RoHS □□	

Package Dimensions[□□□□□□]



Notes [□□]:

1. All dimension are in millimeters orInch tolerance is±0.25mm unless otherwisenoted.
   □□□□□□□□□□□□□□□□□□□□□□□□±0.25mm□
2. Specifications are subject to change without notice.
   . □□□□□□□□□□□□□□□□□□

Absolute Maximum Rating at=Ta=25□

[□ 25□□□□□□□□□]

Power Dissipation [□□□□]	70	mW
Peak Forward Current [□□□□□□] (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA
Forward Current [□□□□]	25	mA
Operating Temperature Range [□□□□]	-30□ to +85□	
Storage Temperature Range [□□□□]	-40□ to +100□	
Lead Soldering Temperature [3mm From Body] [□□□□]	260□ for 3 Seconds	

Electrical /Optical Characteristics at Ta=25□

[□ 25□□□□□□/□□□□]

Description	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA	1.8	2.0	2.4	V
Reverse Current	IR	VR=5V	/	/	10	μA
Dominant Wavelength	λD	IF=20mA	/	572	/	nm
Luminous Intensity	Iv	IF=20mA	/	30	/	mcd
Half V-angle	2θ1/2H-H	IF=20mA	/	60	/	deg
	2θ1/2V-V	IF=20mA	/	/	/	deg

1. Vf maximum tolerance for each bin include is ±0.1V.
   (BIN ±0.1V)

2. Iv maximum tolerance for each bin Include is ±15%.
   (BIN ±15%)

3. λD maximum tolerance for each bin Include is ±1nm.
   (BIN ±1nm)

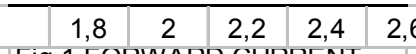


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

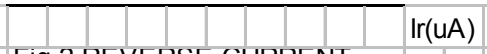


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

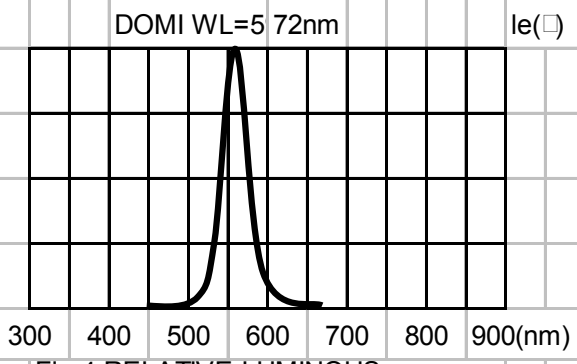


Fig.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

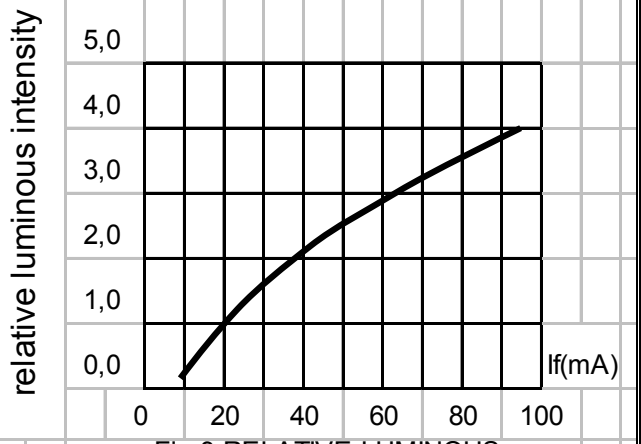


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

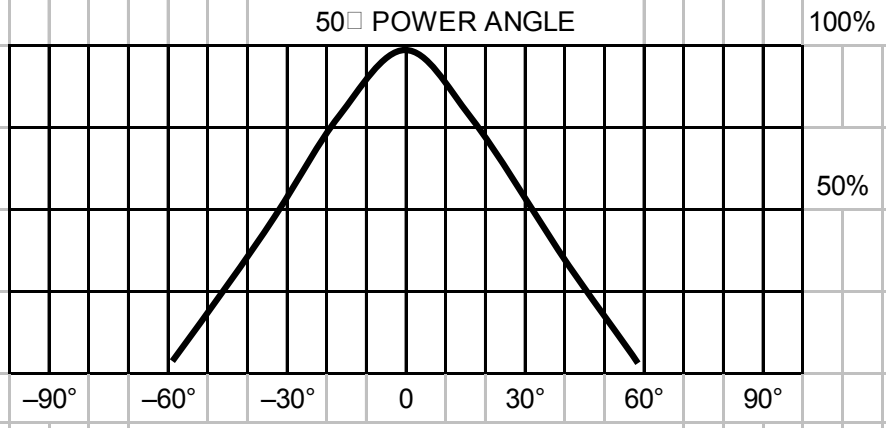


Fig.5 FAR FIELD PATTERN

CAUTIONS:

Storage time

1. The operation of Temperatures and RH are: 5□~35□, RH60%.
2. Once the package is opened, the products should be used within a week.
   Otherwise, they should be kept in a damp proof box with descanting agent.
   Considering the tape life, we suggest our customers to use our products within a year(from production date).
3. If opened more than one week in an atmosphere 5□~ 35□, RH60%, they should be treated at 60□±5 □for 15hours.

Cleaning

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED.

ESD(Electrostatic Discharge)

Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing these LED. All devices, equipment and machinery must be properly grounded

□□:

1. : 5 -35 ,60%RH.
2. , , ;
   , ( );
3. 5 -35 60% RH , 60 ±5 15 .

ESD( )

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Reliability Test:

(1)Test Items And Results

Test Item	Standard Test Method	Test Conditions	Note	Number of Damaged
Resistance to Soldering Heat	JEITA ED-4701 300 302	Tsld=260± 5□,10sec. 3mm from the base of the epoxy bulb	1time	0/100
Solderability	JEITA ED-4701 300 303	Tsld=235+ 5□,5sec. (using flux)	1time over 95%	0/100
Thermal Shock	JEITA ED-4701 300 307	-40□/15min.~100□/15min.	100cycles	0/100
Temperature Cycle	JEITA ED-4701 100 105	-40□/30min.~25□/5min. ~100□/30min.~25□/5min.	100cycles	0/100
Moisture Resistance Cyclic	JEITA ED-4701 200 203	25□~65□~-10□ 90%RH 24hrs./1cycle	10cycles	0/100
Terminal Strength(bending test)	JEITA ED-4701 400 401	Load 5N(0.5kgf) 0°~90°~0°bend 2 times	No noticeable damage	0/100
Terminal Strength(pull test)	JEITA ED-4701 400 401	Load 10N(1kgf)10±1sec.	No noticeable damage	0/100
High temperature Storage	JEITA ED-4701 200 201	Ta=100□	1000hrs.	0/100
Temperature Humidity Storage	JEITA ED-4701 100 103	Ta=60□,RH=90%	1000hrs.	0/100
Low Temperature Storage	JEITA ED-4701 200 202	Ta=-40□	1000hrs.	0/100
Steady state Operating Life		Ta=25□,IF=20mA	1000hrs.	0/100
Steady State Operating Life of High Humidity Heat		60□,RH=90%,IF=20mA	500hrs.	0/100
Steady State Operating Life of Low Temperature		Ta=-30□,IF=20mA	1000hrs.	0/100
Resistance to UV Beam		365nm/75W/mm	192hrs.	0/100

(2)Criteria For Judging The Damage

Item	Symbol	Test Conditions	Criteria for Judgement	
			Min.	Max.
Forward Voltage	Vf	IF=20mA	-	U.S.L.*) x 1.1
Reverse Current	Ir	VR=5V	-	U.S.L.*) x 2.0
Luminous Intensity	Iv	IF=20mA	L.S.L.**) x 0.7	-

*)U.S.L:Upper Standard Level **)L.S.L:Lower Standard Level

□□□□□:

(1) □□□□□□□

□□□□	□□□□	□□□□	□□	□□□/□□□
□□□	JEITA ED-4701 300 302	Tsld=260± 5□,10sec. 3mm from the base of the epoxy bulb	1time	0/100
□□□□ (□□□)	JEITA ED-4701 300 303	Tsld=235+ 5□,5sec. (using flux)	1time over 95%	0/100
□□□□	JEITA ED-4701 300 307	-40□/15min.~100□/15min.	100cycles	0/100
□□□□	JEITA ED-4701 100 105	-40□/30min.~25□/5min. ~100□/30min.~25□/5min.	100cycles	0/100
□□□□	JEITA ED-4701 200 203	25□~65□~-10□ 90%RH 24hrs./1cycle	10cycles	0/100
□□□□ (□□□□)	JEITA ED-4701 400 401	Load 5N(0.5kgf) 0°~90°~0°bend 2 times	No noticeable damage	0/100
□□□□ (□□□□)	JEITA ED-4701 400 401	Load 10N(1kgf)10±1sec.	No noticeable damage	0/100
□□□□	JEITA ED-4701 200 201	Ta=100□	1000hrs.	0/100
□□□□	JEITA ED-4701 100 103	Ta=60□,RH=90%	1000hrs.	0/100
□□□□	JEITA ED-4701 200 202	Ta=-40□	1000hrs.	0/100
□□□□□□		Ta=25□,IF=20mA	1000hrs.	0/100
□□□□□□□□		60□,RH=90%,IF=20mA	500hrs.	0/100
□□□□□□□		Ta=-30□,IF=20mA	1000hrs.	0/100
□□□□□□		365nm/75W/mm	192hrs.	0/100

(2) □□□□□□□□

□□	□□	□□□□	□□□□	
			□□	□□
□□□□	Vf	IF=20mA	-	U.S.L.*) x 1.1
□□□	Ir	VR=5V	-	U.S.L.*) x 2.0
□□□□	Iv	IF=20mA	L.S.L.**) x 0.7	-
*)U.S.L:Upper Standard Level			**)L.S.L:Lower Standard Level	

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