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3MM ROUND LED LAMP [3MM 🗆 🗆 🗆 \rbrack

JZL-G304D-F0 DATA SHEET

DOCUMENT NO.: WI-RD-LDS-YG304D-F0

RELEASE DATE: 2007- 12-6

VERSION: A/0



Features:

Application:

■3mm Round lamp

Indicator

■ Lens color: Green Diffused

Decoration

■ Emitting color: Yellow Green Lighting

■ viewing angle:60°

others

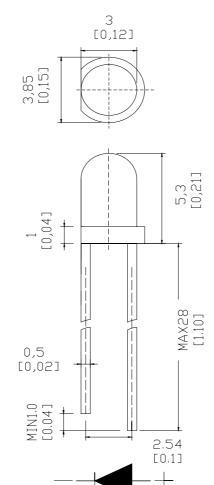
- Leads with stand-offs:NO
- RoHS compliant

- 3mm □ □

- □□□□:60°

- □□ RoHS □□

Package Dimensions[



[🗆 🗆]: Notes

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

Absolute Maximum Rating at=Ta=25 □

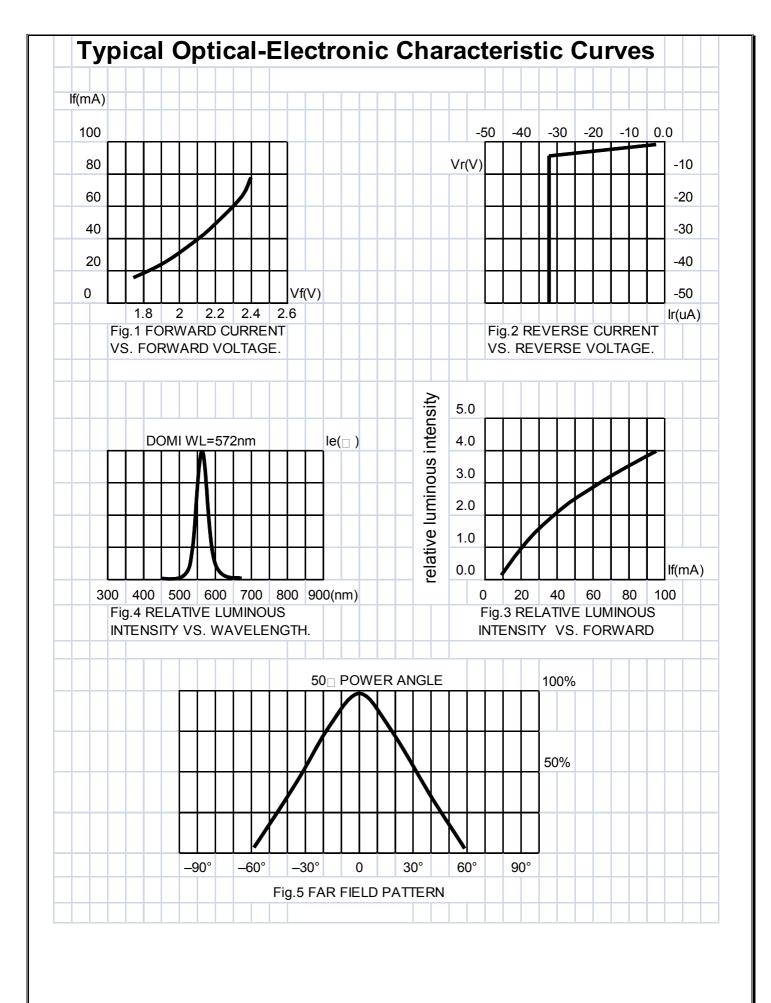
Power Dissipation		70	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse \	[120	mA
Forward Current		25	mA
Operating Temperature Range		-30□ to +85□	
Storage Temperature Range		-40□ to +100□	
Lead Soldering Temperature [3mm From Body]	[0000]	260□ for 3 Seconds	

Electrical /Optical Characteristics at Ta=25 □

Description	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF=20mA	1.8	2.0	2.4	V
Reverse Current	IR	VR=5V	1	/	10	μΑ
Dominant Wavelength	λD	IF=20mA	1	572	1	nm
Luminous Intensity	lv	IF=20mA	1	30	1	mcd
Half V-angle	2θ1/2H-H	IF=20mA	1	60	1	deg
	2θ1/2V-V	IF=20mA	1	1	1	deg

- 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 ± 1 nm. (BIN ± 1 nm)

PART NO[DDD]:: JZL-G304D-F0



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 $5\Box \sim 35\Box$, RH60%, they should be treated at $60\Box \pm 5\Box$ 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

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

				Criteria for Judgement		
Item	Symbol	Test Conditions		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	lv	IF=20mA		L.S.L.**) x 0.7	-	
*)U.S.L:Upper Standard Level **)L.S		S.L:Lower Standard	d Level			

(1)				
		0000		
		Tsld=260 <u>+</u> 5□,10sec. 3mm		
	JEITA ED-4701	from the base of the epoxy		
	300 302	bulb	1time	0/100
	JEITA ED-4701	Tsld=235+ 5□,5sec.	1time over	
	300 303	(using flux)	95%	0/100
	JEITA ED-4701	40 = 14 Fastin	400	0/400
	300 307	-40□/15min.~100□/15min.	100cycles	0/100
	JEITA ED-4701 100 105	-40□/30min.~25□/5min. ~100□/30min.~25□/5min.	10000000	0/100
	100 105	~1000/30/11111.~250/31/1111.	100cycles	0/100
	JEITA ED-4701	25□~65□~-10□		
	200 203	90%RH 24hrs./1cycle	10cycles	0/100
	IEITA ED 4704	Lood ENI/O Elect	No notice state	
(JEITA ED-4701 400 401	Load 5N(0.5kgf) 0°~90°~0°bend 2 times	No noticeable	0/100
		0 ~90 ~0 bend 2 times	damage	0/100
	JEITA ED-4701		No noticeable	
	400 401	Load 10N(1kgf)10 <u>+</u> 1sec.	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
		Ta oo a, ii Zonira	.0001110.	3, 100
		365nm/75W/mm	192hrs.	0/100
(2)	•			
		0000		
	Vf	IF=20mA	-	U.S.L.*) x 1.1
	Ir	VR=5V	-	U.S.L.*) x 2.0
	lv	IF=20mA	L.S.L.**) x 0.7	-
*)U.S.L:Up	per Standard Level	**)L	S.L:Lower Standard L	evel

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