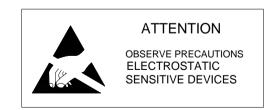
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ROUND 5MM LED LAMP

JZL-PG574C-A5 DATA SHEET

- DOCUMENT NO.: WI-RD-LDS- PG574C-A5
- **RELEASE DATE: 2007-03-15**
- VERSION: A/0



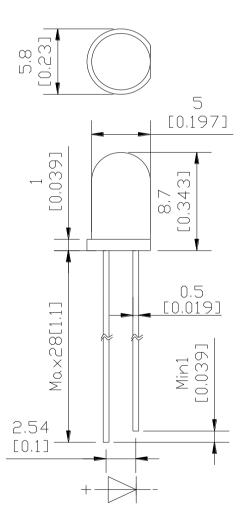
PART NO.: JZL-PG574C-A5

Features:

- 5mm round lamp
- Lens color: WATER CLEAR
- Emitting color: Green
- viewing angle: 15°
- Leads with stand-offs: No
- RoHS compliant

Package Dimensions

Application:
Indicator
Decoration
keyboard
others



Notes:

- 1. All dimension are in millimeters and (Inch) tolerance is <u>+</u>0.25mm unless otherwise noted.
- 2. Specifications are subject to change without notice.

PART NO.: JZL-PG574C-A5

Absolute Maximum Rating at=Ta=25℃

Power Dissipation	120	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA	
Forward Current	25	mA	
Operating Temperature Range	-30°C to +85°C		
torage Temperature Range -40°C to +100°C		;	
Lead Soldering Temperature [3mm From Body]			

Electrical /Optical Characteristics at Ta=25°C

Description	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF=20mA	2.8	3.2	4.0	V
Reverse Current	IR	VR=5V	/	/	10	μA
Dominant Wavelength	λD	IF=20mA	/	525	/	nm
Luminous Intensity	lv	IF=20mA	/	15000	/	mcd
Half V-angle	201/2H-H	IF=20mA	/	15	/	deg
	201/2V-V	IF=20mA	/	/	/	deg

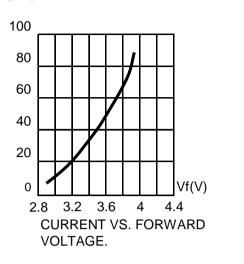
- 1. Vf maximum tolerance for each bin limit is +/-0.1V.
- 2. Iv maximum tolerance for each bin limit is +/-15%.
- 3. λD maximum tolerance for each bin limit is +/-1nm.

PART NO.: JZL-PG574C-A5

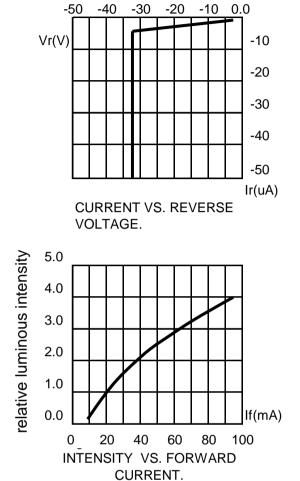
Typical Optical-Electronic Characteristic Curves

le(%)

lf(mA)



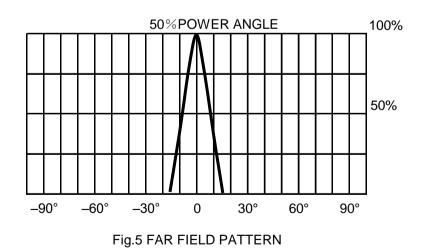
DOMI WL=525nm



-40



INTENSITY VS. WAVELENGTH.



3/5

CAUTIONS:

Storage time

- 1. The operation of Temperatures and RH are: 5°C~35°C, 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).

 If opened more than one week in an atmosphere 5°C~ 35°C, RH60%, they should be treated at 60°C±5 °Cfor 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.

Soldering Instructions

Dip and wave soldering condition: <=260°C/3seconds,distance from solder joint to case is 3.0mm

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 Judg	ing The Damage					
			Criteria for Judgement			
Item	Symbol	Test Conditions	Min.	Max.		
Forward Voltage	Vf	IF=20mA	-	U.S.L.*) x 1.1		
Reverse Current	lr	VR=5V	-	U.S.L.*) x 2.0		
Luminous IntensityIvIF=20mAL.S.L.**) x 0.7-						
*)U.S.L:Up	per Standard Level	**)L.S.L:Lower Standard	Level		