

### **OVAL 346 LED LAMP FOR FULL SCREEN**

# JZL-SY346C-J0P DATA SHEET

- DOCUMENT NO.: WI-RD-LDS- SY346C-J0P
- **RELEASE DATE: 2007-02-01**
- VERSION: A/0



We here by announce that products are tested for vibrations and hits and are prepared for using in automotive industry.

# PART NO.: JZL-SY346C-J0P

### Features:

- 4mm oval lamp
- Lens color: Transparent
- Emitting color: YELLOW
- Horizontal viewing angle: 115°
- Leads with stand-offs: YES
- RoHS compliant

### **Package Dimensions**

### Application:

Outdoor screen

Signal board

Message and information display

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.

### Absolute Maximum Rating at=Ta=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°C to +85°C		
Storage Temperature Range	-40°C to +100°C		
Lead Soldering Temperature [3mm From Body]	260°C for 3 Seconds		

### Electrical /Optical Characteristics at Ta=25°C

Description	Symbol	Conditions	Min.	Тур.	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	585	590	592	nm
Luminous Intensity	lv	IF=20mA	/	1200	/	mcd
Half V-angle	201/2H-H	IF=20mA	/	115+-5	/	deg
	201/2V-V	IF=20mA	/	60	/	deg

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

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# **Typical Optical-Electronic Characteristic Curves**

lf(mA)



# 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).

3. 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+ 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+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							
Ham			Criteria for Judgement				
	Symbol	Test Conditions	Min.				
Forward Voltage	Vī	IF=20MA	-	U.S.L.^) X 1.1			
Reverse Current	lr	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.L:Lower Standard Level

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