

T-1 (3mm) SOLID STATE LAMP

Part Number: L-7104YD-12V

Yellow

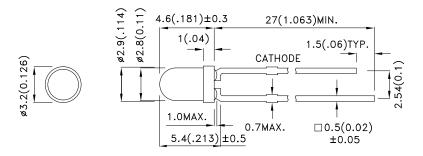
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS
- RELIABLE AND RUGGED.
- LONG LIFE SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 12V INTERNAL RESISTOR.
- RoHS COMPLIANT.

Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.4. Specifications are subject to change without notice.





SPEC NO: DSAC2578 **REV NO: V.5 DATE: JUL/10/2007** PAGE: 1 OF 5 **DRAWN: Y.H.CHEN APPROVED: WYNEC CHECKED: Allen Liu** ERP: 1101008516

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] V= 12V		Viewing Angle [1]
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Min.	Тур.	201/2
L-7104YD-12V	Yellow (GaAsP/GaP)	YELLOW DIFFUSED	3	11	40°

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	590		nm	VF=12V
λD [1]	Dominant Wavelength	Yellow	588		nm	VF=12V
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	VF=12V
lF	Forward Current	Yellow	8.5	11.5	mA	VF=12V
IR	Reverse Current	Yellow		10	uA	VR = 5V

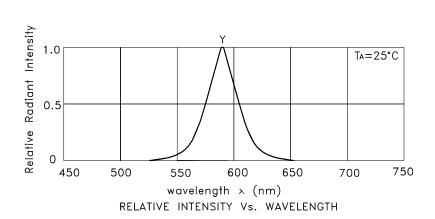
Absolute Maximum Ratings at TA=25°C

Absolute maximum Natings at TA-20 0					
Parameter	Yellow	Units			
Power dissipation	120	mW			
Forward Voltage	14	V			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +70°C	<u> </u>			
Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [1]	260°C For 3 Seconds				
Lead Solder Temperature [2]	260°C For 5 Seconds				

- 1. 2mm below package base.
- 2. 5mm below package base.

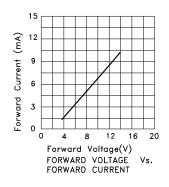
SPEC NO: DSAC2578 **REV NO: V.5** DATE: JUL/10/2007 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu DRAWN: Y.H.CHEN** ERP: 1101008516

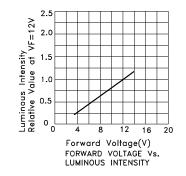
Note: 1.Wavelength: +/-1nm.

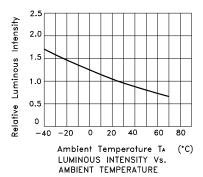


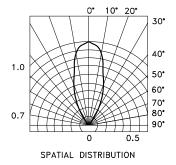
Yellow

L-7104YD-12V







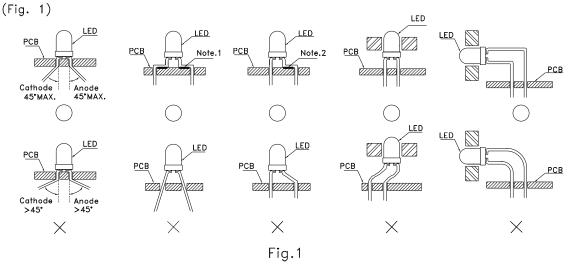


SPEC NO: DSAC2578 REV NO: V.5 DATE: JUL/10/2007 PAGE: 3 OF 5

APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.H.CHEN ERP: 1101008516

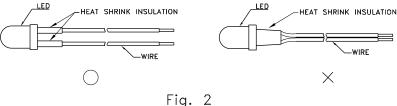
LED MOUNTING METHOD

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures.

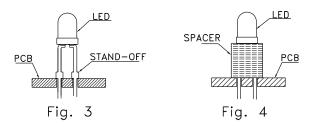


Correct mounting method "X" Incorrect mounting method Note 1-2: Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

2. When soldering wire to the LED, use individual heat—shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig. 2)



3. Use stand-offs (Fig. 3) or spacers (Fig. 4) to securely position the LED above the PCB.

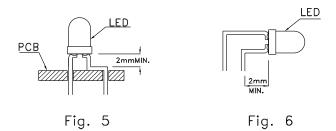


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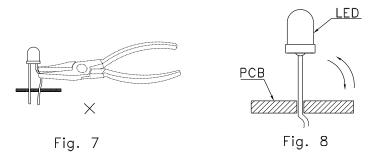
REV NO: V.5 CHECKED: Allen Liu **DATE: JUL/10/2007** DRAWN: Y.H.CHEN PAGE: 4 OF 5 ERP: 1101008516

LEAD FORMING PROCEDURES

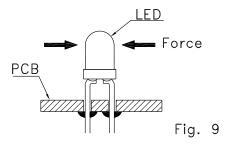
1. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)



- 2. Lead forming or bending must be performed before soldering, never during or after Soldering.
- 3. Do not stress the LED lens during lead—forming in order to fractures in the lens epoxy and damage the internal structures.
- 4. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)
- 5. Do not bend the leads more than twice. (Fig. 8)



6. After soldering or other high—temperature assembly, allow the LED to cool down to 50°C before applying outside force (Fig. 9). In general, avoid placing excess force on the LED to avoid damage. For any questions please consult with Kingbright representative for proper handling procedures.



PAGE: 5 OF 5

ERP: 1101008516

SPEC NO: DSAC2578 REV NO: V.5 DATE: JUL/10/2007

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1511A45W3D