

T-1 3/4 (5mm) SOLID STATE LAMP

PRELIMINARY SPEC

P/N: L-53SYD-H

SUPER BRIGHT YELLOW

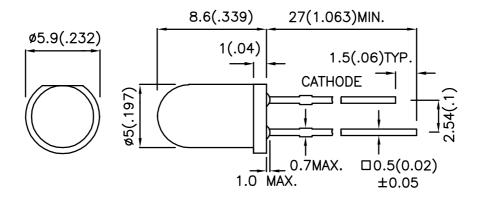
Features

- •LOW POWER CONSUMPTION.
- ●POPULAR T-1 3/4 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.
- •RoHS COMPLIANT.

Description

This devices are made with TS InGaAIP.

Package Dimensions



Notes

- 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: DSAB9568 REV NO: V.4 DATE: DEC/09/2004 PAGE: 1 OF 3
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: F.LI

Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
L-53SYD-H	SUPER BRIGHT YELLOW (InGaAIP)	YELLOW DIFFUSED	480	1200	60°

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	IF=20mA
λD	Dominant Wavelength	Super Bright Yellow	589		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=20mA
С	Capacitance	Super Bright Yellow	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Yellow	2.3	2.8	V	IF=20mA
IR	Reverse Current	Super Bright Yellow		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow			
Power dissipation	120			
DC Forward Current	30	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	ad Solder Temperature [2] 260°C For 3 Seconds			
ead Solder Temperature [3] 260°C For 5 Seconds				

Notes:

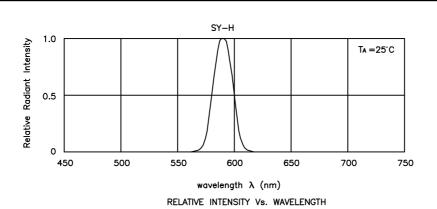
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

SPEC NO: DSAB9568 **REV NO: V.4** DATE: DEC/09/2004 PAGE: 2 OF 3

APPROVED: J. Lu CHECKED: Allen Liu DRAWN: F.LI

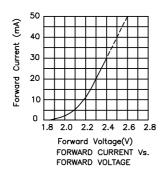
Note: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

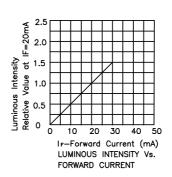
Kingbright

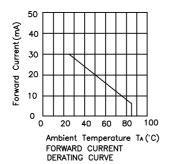


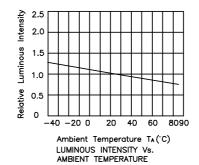
Super Bright Yellow

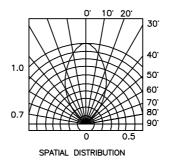
L-53SYD-H











Domarka:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity/ Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

SPEC NO: DSAB9568 REV NO: V.4 DATE: DEC/09/2004 PAGE: 3 OF 3
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: F.LI