Kingbright

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

P/N: L-7113SYD 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

The Super Bright Yellow device is made with DH InGaAIP (on GaAs substrate) light emitting diode chip.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±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.

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Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle				
			Min.	Тур.	2 0 1/2				
L-7113SYD	SUPER BRIGHT YELLOW (InGaAIP)	YELLOW DIFFUSED	110	400	30°				

Note:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	I⊧=20mA
λD	Dominant Wavelength	Super Bright Yellow	588		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	28		nm	I⊧=20mA
С	Capacitance	Super Bright Yellow	25		pF	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Yellow	2.0	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Yellow		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	Units	
Power dissipation	125	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2] 260°C For 3 Seconds			
Lead 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.

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