T-1 (3mm) BI-LEVEL LED INDICATOR

Part Number: L-7104MD/1SURK1CGKD

Hyper Red Green

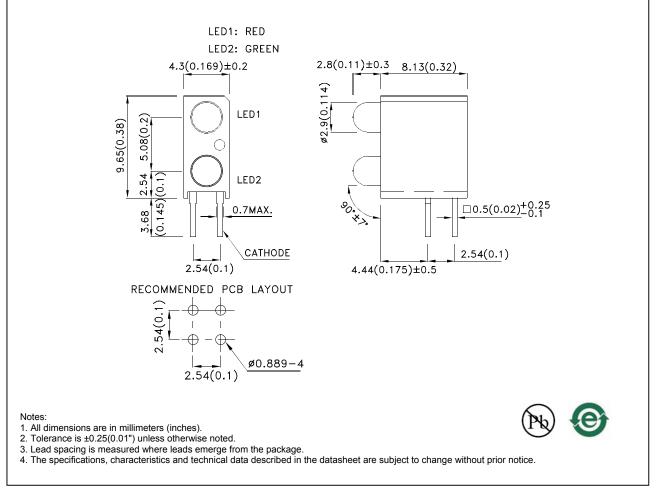
Features

- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Descriptions

- The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.
- The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



REV NO: V.2A CHECKED: Allen Liu DATE: MAY/06/2014 DRAWN: Y.Liu

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Selection Guide Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. 400 900 Hyper Red (AlGaInP) Red Diffused 40° *120 *240 L-7104MD/1SURK1CGKD 80 250 40° Green (AlGaInP) Green Diffused *80 *250

Notes:

01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.
* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Green	645 574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Green	630 570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Green	28 20		nm	I⊧=20mA
С	Capacitance	Hyper Red Green	35 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Green	1.95 2.1	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Hyper Red Green		10 10	uA	VR = 5V

Notes:

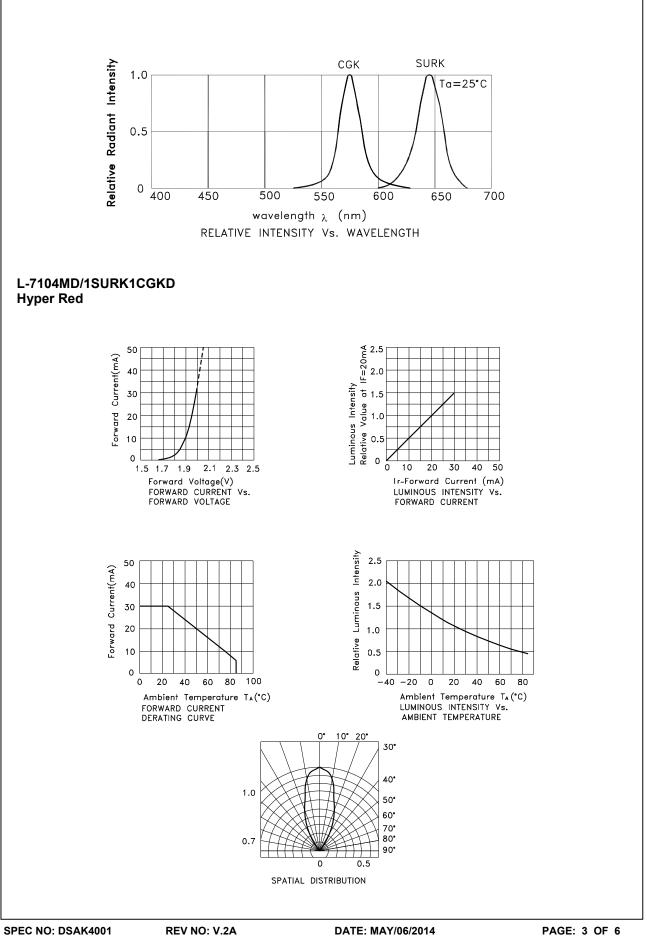
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

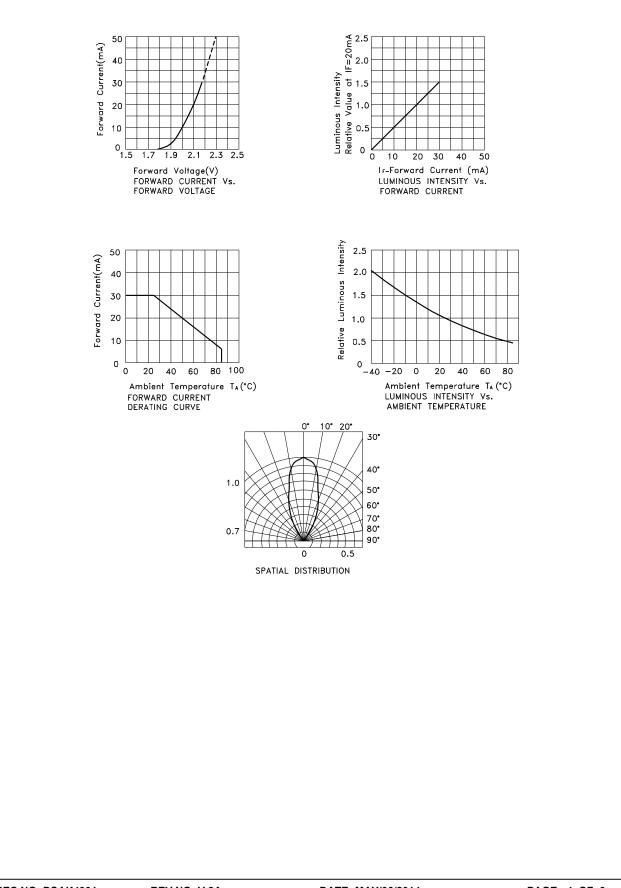
Parameter	Hyper Red	Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage		V			
Operating / Storage Temperature	ng / Storage Temperature -40°C To +85°C				
Lead Solder Temperature [2]	Temperature [2] 260°C For 3 Seconds				
Lead Solder Temperature [3]	perature [3] 260°C For 5 Seconds				

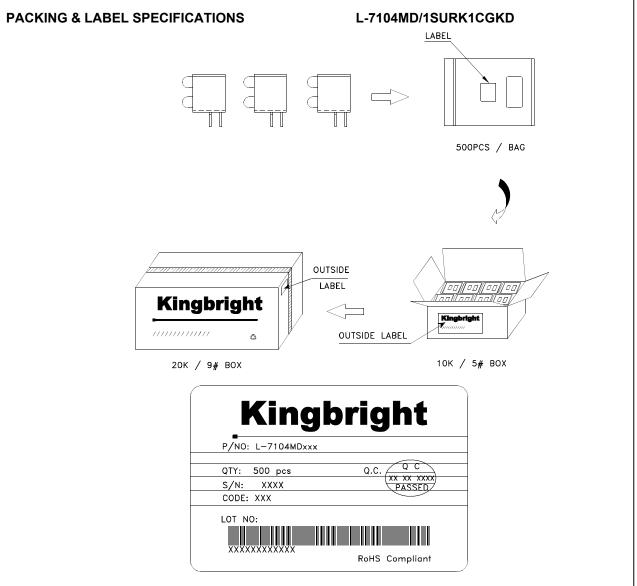
Notes:

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



Green



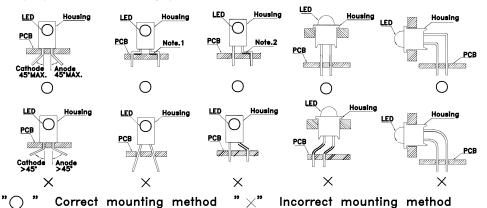


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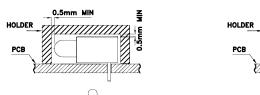
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PRECAUTIONS

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.



2. During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.



- 3. The tip of the soldering iron should never touch the lens epoxy.
- 4. Through—hole LEDs are incompatible with reflow soldering.
- 5. If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.
- 6. Recommended Wave Soldering Profiles:

