

Features & Benefits



- Constant voltage design
- Less than 2W power consumption per lamp
- Replaces similar incandescent or xenon lamps with 1/2 to 1/5 power consumption
- Mounts to standard available festoon track
- Modules can be easily rotated
- Cooler to the touch than traditional incandescent sources
- LEDs mounted to integral aluminum heatsink with white powder coat finish, specially designed to keep LEDs operating at optimal temperature
- Available in a variety of color temperatures
- Can be used to meet the requirements of CA Title 24, ENERGY STAR® and other green initiatives

Required Brillia LED Drivers

Any Brillia 12V Constant Voltage Driver..... See Brillia LED driver specifications

Ratings and Performance Specifications

Nominal DC Power Consumption	1.8W
Maximum Input Requirements.....	12VDC
Maximum Operating Range Ambient Temperature (Ta)	-40 to +50 °C
Maximum Solder Pad Temperature (Ts)	+105 °C
Estimated Lumen Depreciation (LM80 standard)	70% of initial lumens (L ₇₀) at 40,000 hours
Maximum Weight	13 grams
Safety/Compliance	
RoHs compliant	

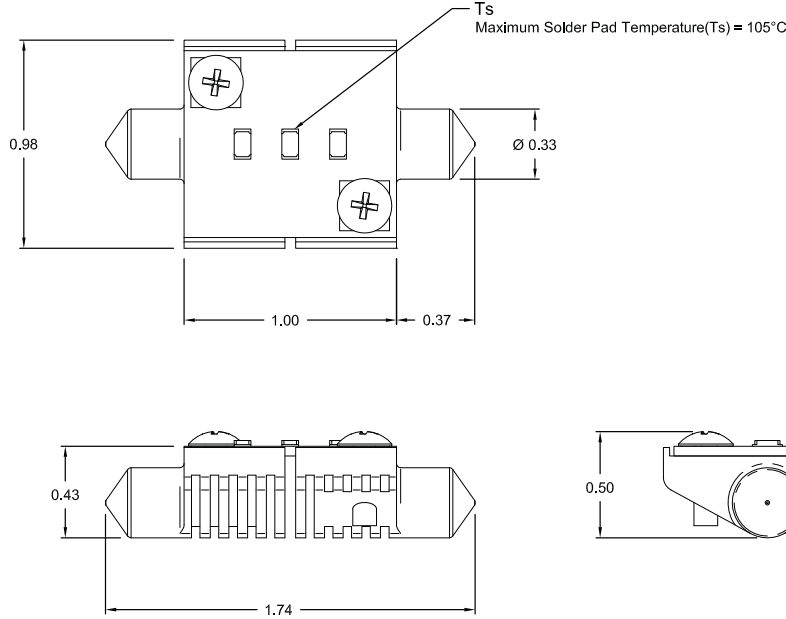
Application Notes

1. The proper LED Solder Pad Temperature (Ts) is critical to ensure long life. Careful design consideration required for factors such as ambient conditions (for example weather and surrounding atmosphere inside exterior luminaires) and proximity to other heat sources such as other LED modules and heat generating LED drivers.

2. Abnormal operating conditions such as high humidity or elevated operating temperatures can be expected to negatively impact lumen output, product lifetime, or product performance.



Physical Dimensions



DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX = ± 0.01"
X.XXX = ± 0.005"

Part Number	Nichia NS2x123B-H3 LED Package Bin	Nominal Values CCT Color Temp. (Kelvin)	Sample Values Light Output ⁽²⁾ (Lumens)	Sample Values Efficacy ⁽²⁾ (LPW)	Sample Values CRI ⁽¹⁾	Nominal Beam Angle (Degrees)
BBH03BT-20031-0000XX-01	SW27	2700	75	42	85	120
BBH03BT-21031-0000XX-01	SW35	3500	90	50	85	120
BBH03BT-65031-0000XX-01	SW65	6500	100	55	70	120

¹ Higher CRI available by special order

² Sample value when used with compatible Brillia LED driver and sample heatsink

Options: sales@brillialed.com

Other LED colors, including colors for turtle areas, or LED manufacturers available...please email sales@brillialed.com

Packaging

Products are marked with abbreviated SKU and lot traceability information. Products are sold individually and packaged in ESD bags with SKU and lot traceability information.

Warranty

3 Year limited warranty in accordance with Brillia published warranty. Product must be used with compatible Brillia components (modules, drivers, engines and/or accessories) and no maximum ratings (such as Ts) shall be exceeded during any expected operating conditions of the system.

Additional Information