

Features & Benefits

- Constant voltage design
- Protective transparent coating
- Patented intelligent thermal design uses metal core board (MCPCB)
- Includes pre-wired leads
- Includes high performance adhesive transfer tape
- Easily configured into existing and new luminaires
- 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

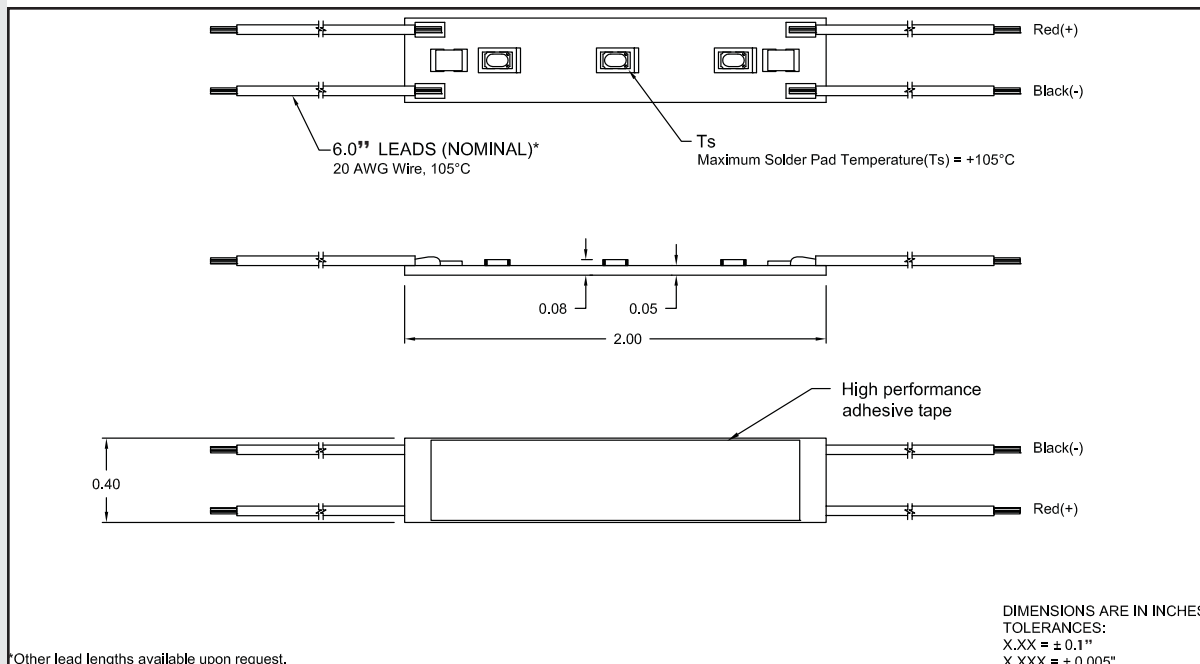
Nominal DC Power Consumption @ 12VDC	1.8W
Maximum Input Requirements.....	12.3VDC
Maximum Operating Range Ambient Temperature (Ta)	-40 to +50° C
Maximum Solder Pad Temperature (Ts)	+105° C
Estimated Lumen Depreciation (LM80 standard)	70% of initial lumens (L ₇₀) at 40,000 hours
Maximum Weight	8 grams
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



Part Number	Nichia NS2x123B LED Package Bin	Nominal Values CCT Color Temp. (Kelvin)	Sample Values Light Output ⁽²⁾ (Lumens)	Sample Values Efficacy ⁽²⁾ (LPW)	Sample Values CRI	Nominal Beam Angle (Degrees)
BB03AZ-20231-060020-01	SW27	2700	70	39	85	120
BB03AZ-21231-060020-01	SW35	3500	90	50	85	120
BB03AZ-24231-060020-01	SW50	5000	105	58	85	120

¹Higher CRI available by special order

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

Options: sales@brillialed.com

Other LED colors or LED manufacturers availableplease email sales@brillialed.com

Packaging

Modules are marked with abbreviated SKU and lot traceability information on non-LED side of module. Modules are sold pre-wired in groups of 28 units 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.

Permlight Products Inc. holds the following United States patents of which one or more may be applicable to the design and/or manufacture of this product. Additional granted patents, patents pending and other intellectual property protection rights may apply to this product.

United States Patents: 6712486, 6578986, 6846093, 7114831, 7306353, 7108396, 7387406, 7595740

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