87×145MM YELLOW BACKLIGHT

A-TBL-89159UW16

Features

- ※ 87×145mm is emitting surface size of backlight
- X Low power requirement, solid state reliability.
- * Multicolor available, stackable horizontally.
- * Categorized for luminous intensity.
- * Easy mounting on P.C. boards.
- ※ Remain within RoHS compliant version.

Applications

- ※ General lighting solutions
- ※ LCD display backlight

Ordering Information

Part	Part Emission Emission Number Size Color	Brightness IV (cd/m ²)			
Number		Color	Min.	Тур.	Max.
A-TBL-89159UW16	87×145MM	White	150	225	300

A-TBL-89159UW16

Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature	T _{OP}	-35 ~ 85	°C
Storage temperature	T _{STG}	-35 ~ 85	°C
Peak forward current ($T_A=25 \text{ °C}$) * ¹	I _{PF}	120	mA
Reverse voltage (TA=25 °C)	V _R	5	V
Power consumption (TA=25 °C)	Р	960	mW

*1 at 1/10 Duty Cycle

Electrical / Optical Characteristics (1)

 $(T_A = 25 \text{ °C \& IF} = 20 \text{ mA})$

Parameter		Symbol	Value	Unit
Wavelength at peak emission	(Typ.)	λ_{P}	-	nm
Spectral bandwidth at 50%	(Typ.)	Δλ	30	nm
	(Min.)	I _F	50	
Forward Current	(Typ.)	$I_{\rm F}$	65	mA
	(Max.)	$I_{\rm F}$	80	
	(Min.)	$V_{\rm F}$	-	
Forward voltage	(Тур.)	\mathbf{V}_{F}	12	V
	(Max.)	$V_{\rm F}$	-	
Color temperature	(Min.)	TC	20000	K
	(Max.)	TC	25000	Κ
Luminous Uniformity	(Typ.)	-	80%	-
Discreteness	(Typ.)	-	20%	-

Luminous Intensity Bin Groups

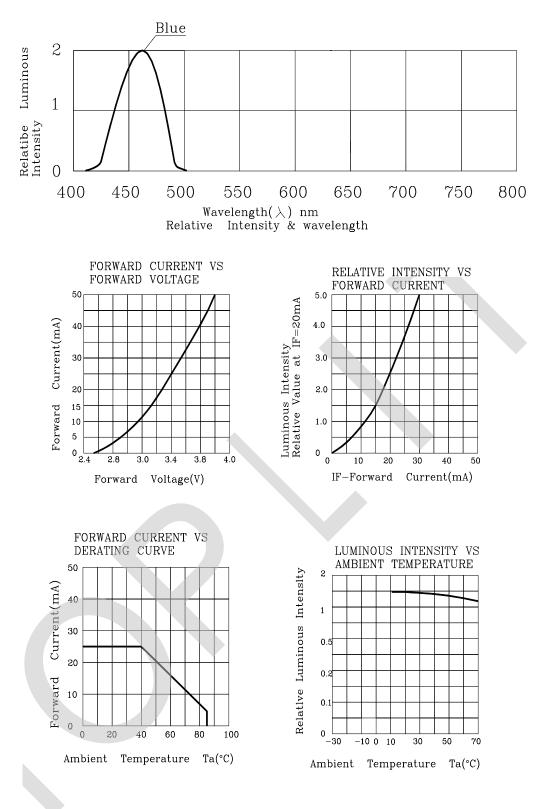
 $(T_A = 25 \circ C)$

Brightness IV (cd/m ²)				
Min.	Тур.	Max.		
150	225	300		

URL: www.topliteusa.com Email: sales@toplightusa.com

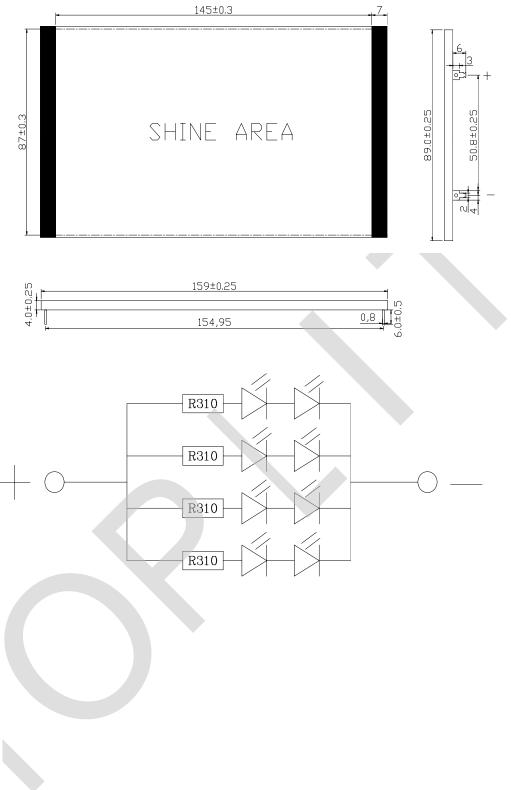


Electrical/Optical Charateristic (2)



TOPLITE

Package Outline Dimensions



Notes:

- 1. All dimensions are in millimeters. Tolerance is +/-0.25 unless otherwise noted.
- 2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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Display Soldering Conditions

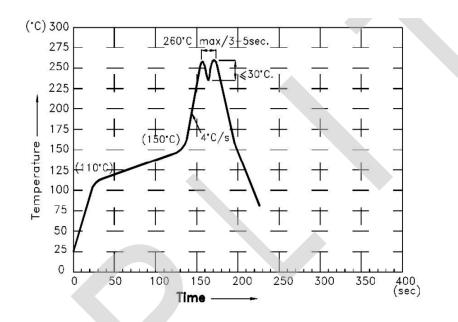
The recommended conditions for soldering are as follows. Because the component is made with epoxy resin, the units are susceptible to heat. Therefore, the preheating and soldering temperatures should be kept as low as possible to avoid damage.

1 . Manual Soldering Conditions(with 1.5mm Iron tip)

Iron Tip Temperature: 350°C Max, Time: 3s Max Position: The iron should be situated at least 2mm away from the root of the leads.

2. Through the Wave Soldering Conditions

Wave Soldering Profile For Lead-free Through-hole LED



3. Soldering General Notes:

- a. TOPLITE recommend manual soldering to be used only for repair and rework purposes. The soldering iron should not exceed 30W in power. The tip of the soldering iron should not touch the reflector case to avoid heat-damage.
- b. Maintain the pre-heat and peak temperatures with dip units as low as possible and the times as short as is feasible, since the products are susceptible to heat during flow soldering.
- c. After soldering, allow at least three minutes for the component to cool to room temperature before further operations.
- d. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with TOPLITE for compatibility.