### 0.36" DUAL DIGIT SUPER RED DISPLAY

### A-3261BSR

### **Features**

- 0.36 inch digit height
- Super Red emitting color
- White segment color, Black face
- Low current operation
- Easy mounting on PCB boards or sockets
- Lead free, RoHS compliant

## **Applications**

- Digital clocks
- Electronic meters
- Other electronic devices for displaying numerical information

**Ordering Information** 

Part	Emission Color	Face Color	Bin Code	Luminous Intensity IV (μcd) (IF=10mA)		
Number				Min.	Тур.	Max.
			Т	26326	32907	39489
A-3261BSR	Super Red	Black	U	39490	49362	59235
			V	59236	74045	88854

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**Maximum Ratings** 

Parameter	Symbol	Value	Unit
Operating temperature	$T_{OP}$	<b>-</b> 35 ∼ 85	°C
Storage temperature	$T_{STG}$	<b>-</b> 35 ∼ 85	°C
Forward current (TA=25 °C)	$I_{\mathrm{F}}$	30	mA per seg
Peak forward current (T <sub>A</sub> =25 °C) * <sup>1</sup>	$I_{\mathrm{PF}}$	120	mA per seg
Reverse voltage (TA=25 °C)	$V_R$	5	V per seg
Power consumption (TA=25 °C)	Р	80	mW per seg

<sup>\*1</sup> at 1/10 Duty Cycle

# **Electrical / Optical Characteristics (1)**

 $(T_A = 25 \, {}^{\circ}\text{C})$ 

Parameter		Symbol	Value	Unit
Wavelength at peak emission	(Тур.)	$\lambda_{ m P}$	628	nm
<b>Dominant wavelength</b> IF = 20mA	(Typ.)	$\lambda_{\mathrm{D}}$	<b>(</b> -)	nm
Spectral bandwidth at 50% IF = 20mA	(Typ.)	Δλ	20	nm
Viewing angle at 50% IF = 20mA	(Typ.)	$2\theta_{1/2}$	-	degree
Forward voltage IF = 20mA	(Min.) (Typ.) (Max.)	$egin{array}{c} V_{\mathrm{F}} \ V_{\mathrm{F}} \ V_{\mathrm{F}} \end{array}$	1.80 2.10 2.40	V V V
Reverse current VR = 5V	(Max.)	$I_R$	20	μΑ
Optical efficiency IF = 20mA	(Typ.)	$\eta_{ m PT}$	-	lm/W

# **Luminous Intensity Bin Groups**

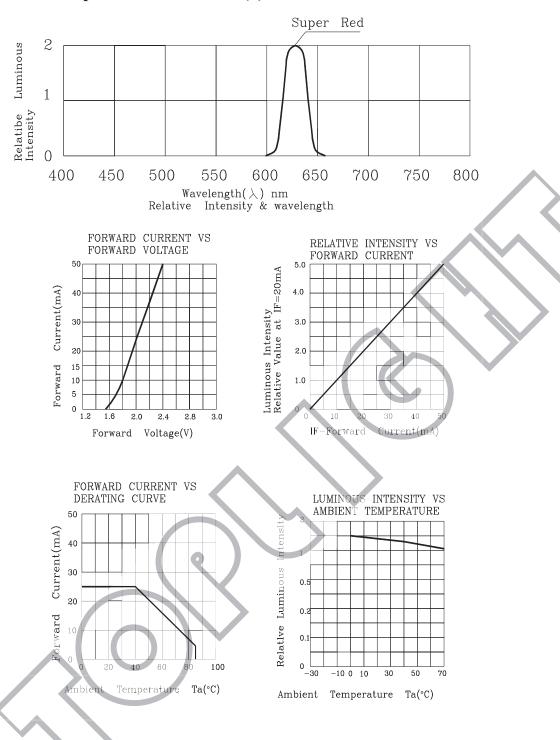
 $(T_A = 25 \text{ °C \& } I_F = 10 \text{ mA})$ 

Bin Code	Luminous Intensity Iv (μcd)			
Bin Code	Min.	Тур.	Max.	
T	26326	32907	39489	
U	39490	49362	59235	
V	59236	74045	88854	

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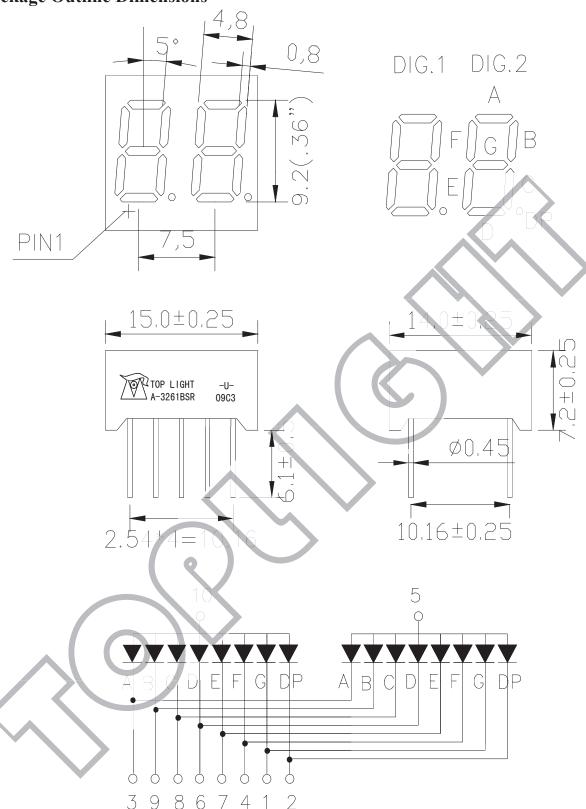


# **Electrical/Optical Charateristic (2)**



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## **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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URL: <u>www.toplightusa.com</u> Email: <u>sales@toplightusa.com</u>



### **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.

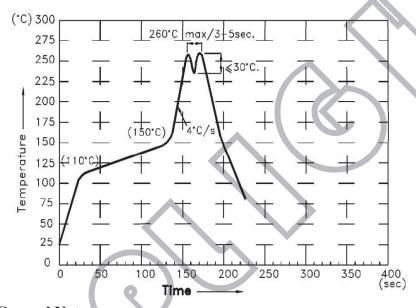
### 1. Manual Soldering Conditions(with 1.5mm Iron tip)

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. Toplight 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 Toplight for compatibility.

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