0.36" TRIPLE DIGIT RED DISPLAY

A-3361BH

Features

- 0.36 inch digit height
- 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	Face	Face Bin Code	Luminous Intensity IV (μcd) (IF=10mA)		
Number	Color	Color		Min.	Тур.	Max.
			M	6145	7066	7987
A-3361BH Red	Red	Black	N	7988	9185	10383
			P	10384	11941	13499

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Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature	T_{OP}	- 35 ∼ 85	°C
Storage temperature	T_{STG}	- 35 ∼ 85	°C
Forward current (TA=25 °C)	I_{F}	30	mA per seg
Peak forward current (T _A =25 °C) * ¹	${ m I}_{ m PF}$	120	mA per seg
Reverse voltage (TA=25 °C)	V_R	5	V per seg
Power consumption (TA=25 °C)	P	80	mW per seg

^{*1} at 1/10 Duty Cycle

Electrical / Optical Characteristics (1)

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

Parameter		Symbol	Value	Unit
Wavelength at peak emission	(Тур.)	$\lambda_{ m P}$	640	nm
Dominant wavelength IF = 20mA	(Typ.)	λ_{D}	S -)	nm
Spectral bandwidth at 50% IF = 20mA	(Тур.)	Δλ	20	nm
Viewing angle at 50% IF = 20mA	(Typ.)	$2\theta_{1/2}$	-	degree
Forward voltage IF = 20mA	(Min.) (Typ.) (Max.)	$egin{array}{c} V_{F} \ V_{F} \ V_{F} \end{array}$	1.70 1.85 2.20	V V V
Reverse current VR = 5V	(Max.)	I_R	20	μΑ
Optical efficiency IF = 20mA	(Typ.)	$\eta_{ m DPT}$	-	lm/W

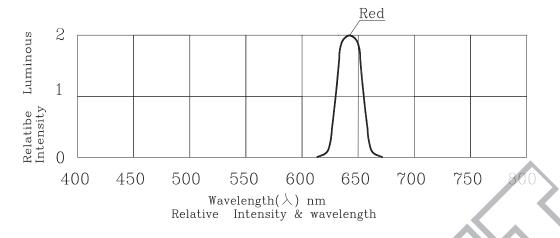
Luminous Intensity Bin Groups

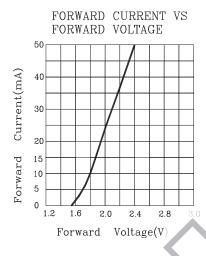
 $(T_A = 25 \text{ °C \& } I_F = 10 \text{ mA})$

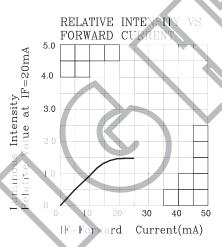
Bin Code	Luminous Intensity Iv (μcd)			
Bin Code	Min.	Тур.	Max.	
M	6145	7066	7987	
N	7988	9185	10383	
P	10384	11941	13499	

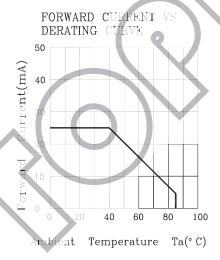
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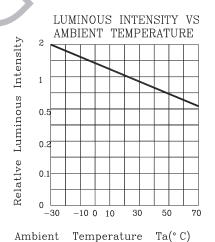
Electrical/Optical Charateristic (2)





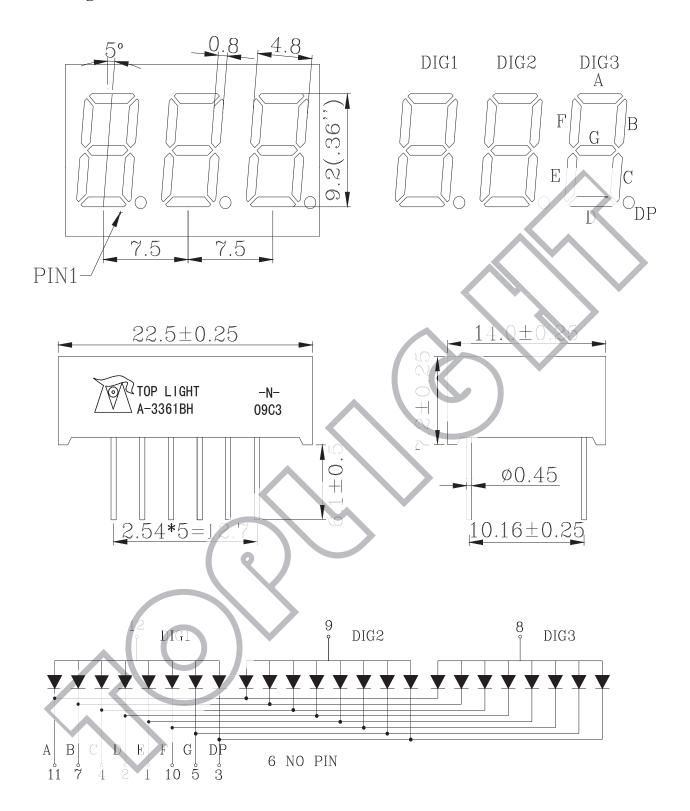






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Package Outline Dimensions



110105.

- 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: sales@toplightusa.com

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.

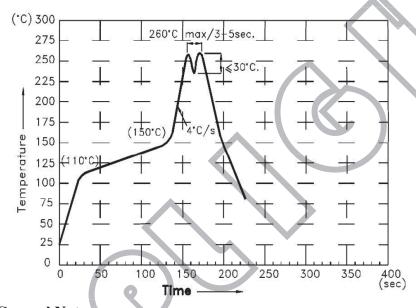
1. Manual Soldering Conditions(with 1.5mm Iron tip)

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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