

0.56" DUAL DIGIT RED DISPLAY

A-5263BH

Features

- 0.56 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 Number	Emission Color	Face Color	Bin Code	Luminous Intensity IV (μcd) (IF=10mA)		
				Min.	Typ.	Max.
A-5263BH	Red	Black	M	6145	7066	7987
			N	7988	9185	10383
			P	10384	11941	13499

Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature	T_{OP}	-35 ~ 85	°C
Storage temperature	T_{STG}	-35 ~ 85	°C
Forward current ($T_A=25\text{ °C}$)	I_F	30	mA per seg
Peak forward current ($T_A=25\text{ °C}$) * ¹	I_{PF}	120	mA per seg
Reverse voltage ($T_A=25\text{ °C}$)	V_R	5	V per seg
Power consumption ($T_A=25\text{ °C}$)	P	80	mW per seg

*1 at 1/10 Duty Cycle

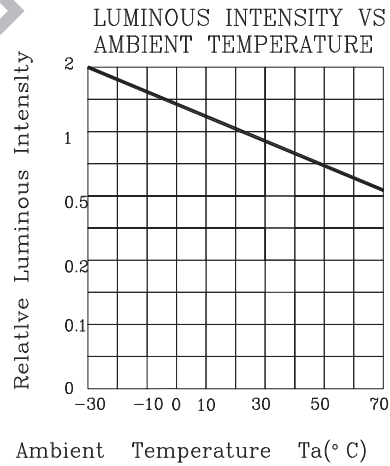
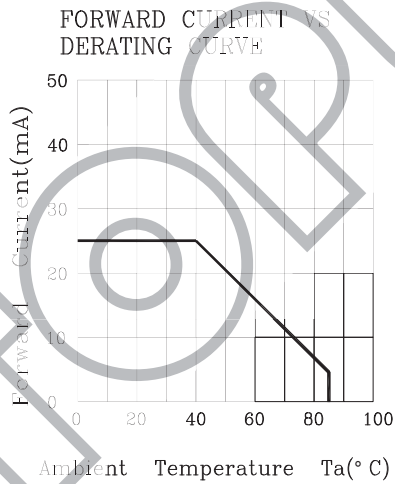
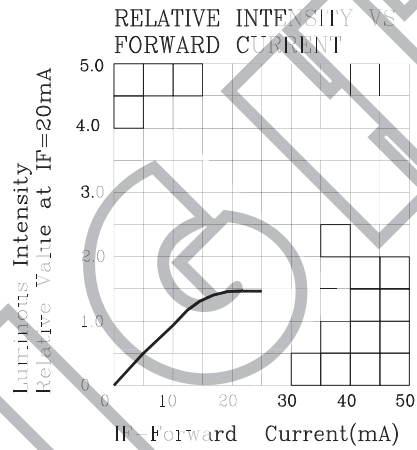
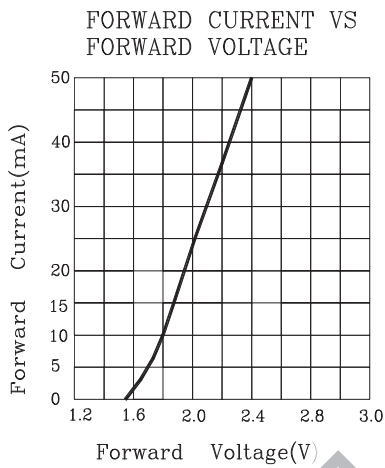
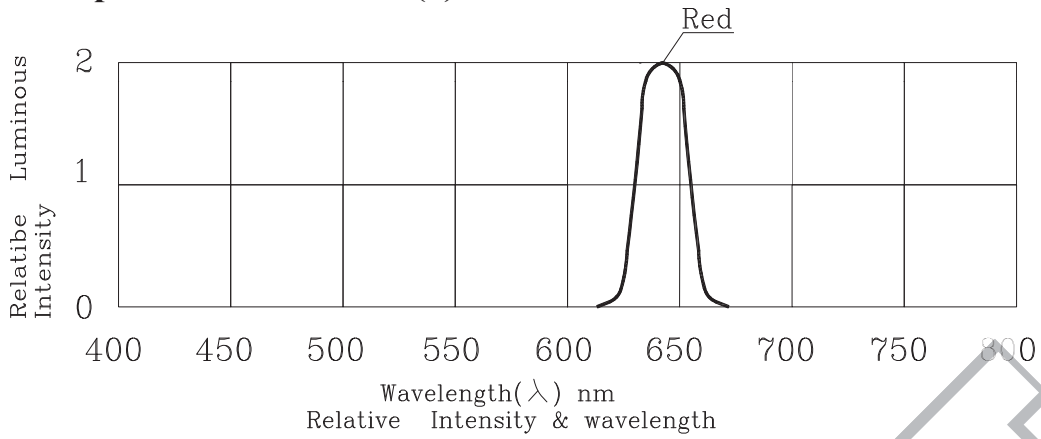
Electrical / Optical Characteristics (1) $(T_A = 25\text{ °C})$

Parameter	Symbol	Value	Unit
Wavelength at peak emission (Typ.)	λ_P	640	nm
Dominant wavelength (Typ.) IF = 20mA	λ_D	-	nm
Spectral bandwidth at 50% (Typ.) IF = 20mA	$\Delta\lambda$	20	nm
Viewing angle at 50% (Typ.) IF = 20mA	$2\theta_{1/2}$	-	degree
Forward voltage (Min.) (Typ.) (Max.) IF = 20mA	V_F	1.70	V
	V_F	1.85	V
	V_F	2.20	V
Reverse current (Max.) VR = 5V	I_R	20	μA
Optical efficiency (Typ.) IF = 20mA	η_{DPT}	-	lm/W

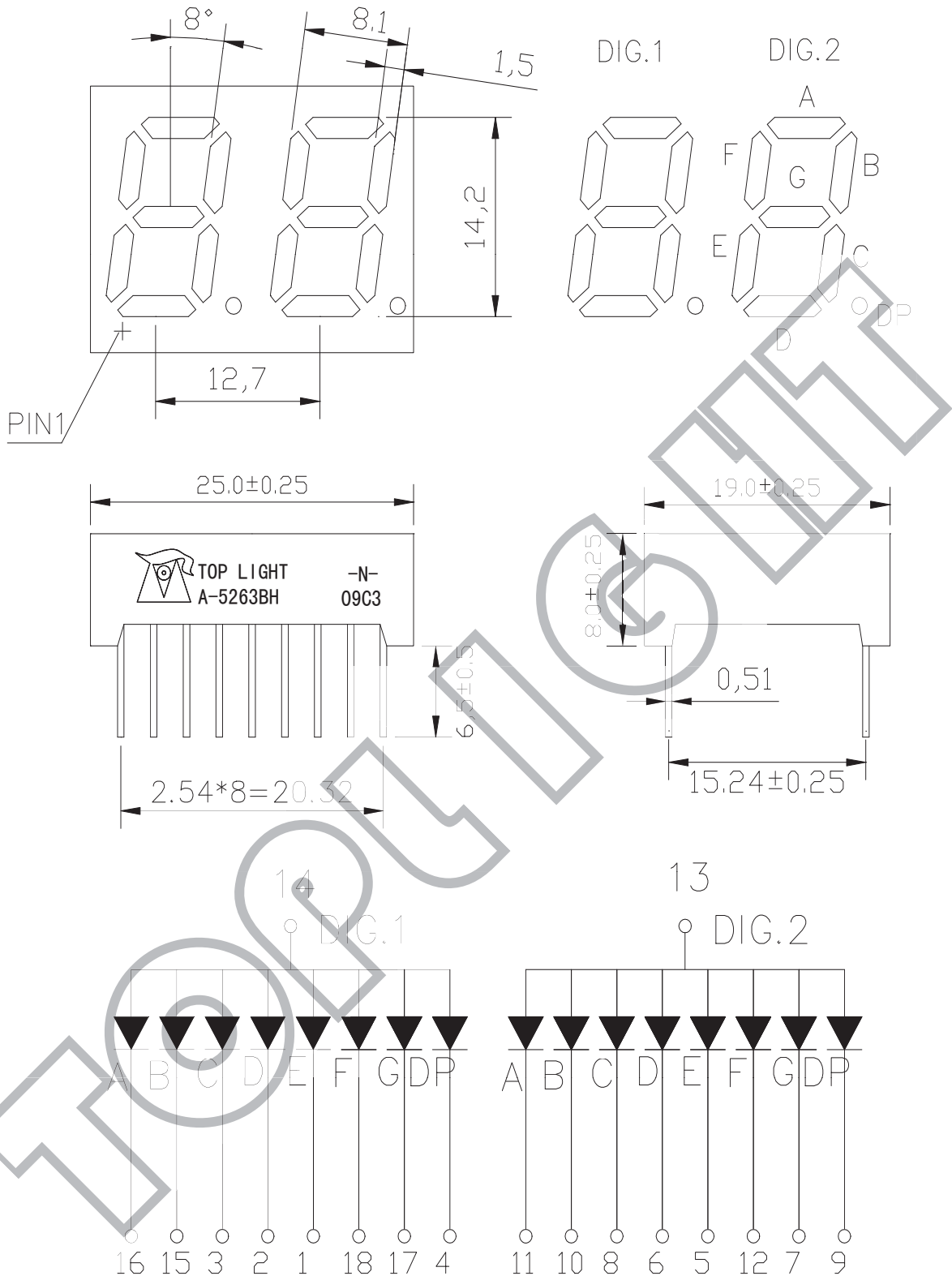
Luminous Intensity Bin Groups $(T_A = 25\text{ °C} \ \& \ I_F = 10\text{ mA})$

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

Electrical/Optical Charateristic (2)



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.

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:

- 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.
- 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.
- After soldering, allow at least three minutes for the component to cool to room temperature before further operations.
- 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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