Φ1.9MM / 8×8 / 0.7 INCH (17.5MM) YELLOW GREEN DOT MATRIX

A-788BYG

FEATURES

- % 0.7 inch (17.5mm) matrix height.
- % Low power requirement, solid state reliability.
- X Multicolor available, stackable horizontally.
- * Categorized for luminous intensity.
- it is a symplexial mean on a symplexial mean of the symplexial mean
- ※ Remain within RoHS compliant version.

APPLICATION

- ※ Digital readout display
- ※ Instrument pancls
- [∗] Elevator
- ※ Audio epuipment

Ordering Information

Part	Emission Color	Face Color	Bin Code	Luminous Intensity IV (µcd) (IF=10mA)		
Number				Min.	Тур.	Max.
A-788BYG Ye		Black	Р	10384	11942	13499
	Yellow Green		R	13500	15525	17549
			S	17550	21938	26325



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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)	$I_{ m F}$	30	mA per seg
Peak forward current ($T_A=25 \text{ °C}$) * ¹	$I_{\rm PF}$	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

*1 at 1/10 Duty Cycle

Electrical / Optical Characteristics (1)

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

Parameter		Symbol	Value	Unit
Wavelength at peak emission	(Typ.)	λ _P	570	nm
Dominant wavelength IF = 20mA	(Тур.)	λ_{D}	-	nm
Spectral bandwidth at 50% IF = 20mA	(Тур.)	Δλ	20	nm
Viewing angle at 50% IF = 20mA	(Тур.)	$2\theta_{1/2}$	-	degree
	(Min.)	$V_{\rm F}$	1.9	V
Forward voltage IF = 20mA	(Typ.)	\mathbf{V}_{F}	2.1	V
	(Max.)	$\mathbf{V}_{\mathbf{F}}$	2.5	V
Reverse current VR = 5V	(Max.)	I _R	20	μΑ
Optical efficiency IF = 20mA	(Typ.)	η _{орт}	-	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.
Р	10384	11942	13499
R	13500	15525	17549
S	17550	21938	26325

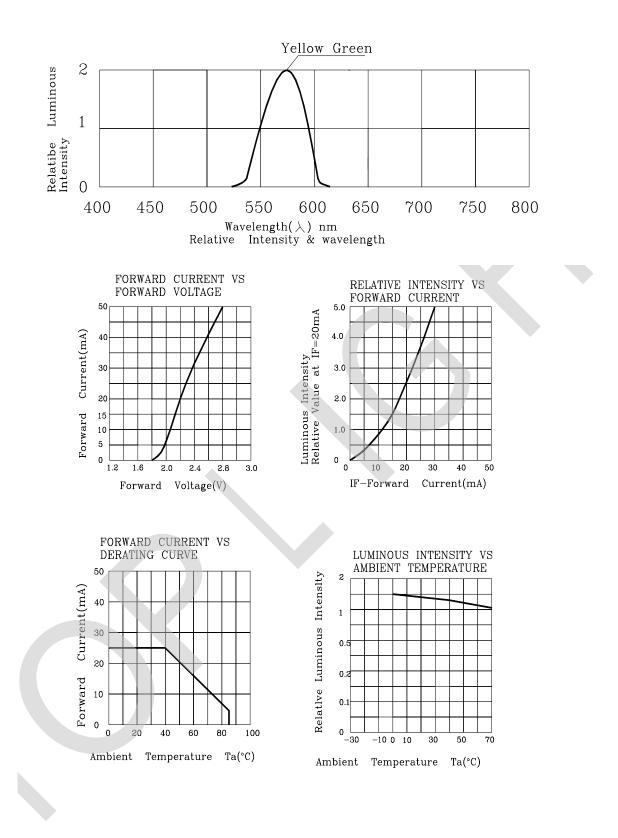
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URL: www.toplightusa.com Email: sales@toplightusa.com

Electrical/Optical Charateristic (2)



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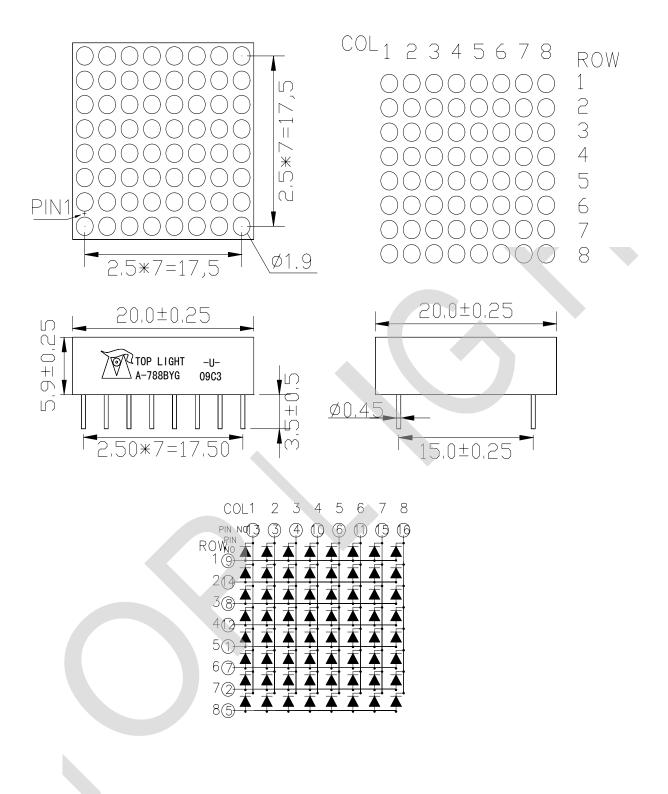
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Package Outline Dimensions



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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Display Soldering Conditions

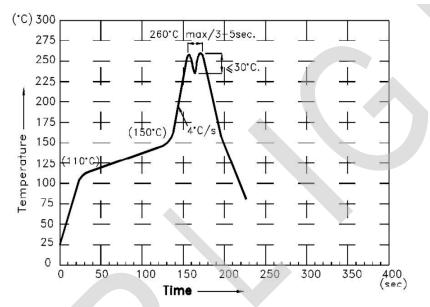
The recommended conditions for soldering are as follows. Because the component is made with epoxy resin, the units are susceptible to heat. Therefore, the preheating and soldering temperatures should be kept as low as possible to avoid damage.

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.

