Φ3MM PURE GREEN ROUND LED

A-304U13G28C

Features

- Round Type
- Pure Green emitting color
- Low current operation
- Lead free, RoHS compliant

Applications

- Indicator
- TV set
- Auto
- Monitor

Part	Emission Color	Lens Color	Bin Code	Luminous Intensity IV (mcd) (IF=20mA)		
Number				Min.	Тур.	Max.
A- 304U13G28C Pure Gree		Water Clear	Ν	7988	9186	10383
	Pure Green		Р	10384	11942	13499
			R	13500	15525	17549

Ordering Information

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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)	$I_{\rm F}$	30	mA per seg
Peak forward current ($T_A=25 \text{ °C}$) * ¹	I_{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	525	nm
Dominant wavelength IF = 20mA	(Typ.)	$\lambda_{\mathbf{D}}$	-	nm
Spectral bandwidth at 50% IF = 20mA	(Typ.)	Δλ	30	nm
Viewing angle at 50% IF = 20mA	(Тур.)	20 _{1/2}	17	degree
	(Min.)	V _F	2.8	V
Forward voltage IF = 20mA	(Typ.)	$\mathbf{V}_{\mathbf{F}}$	3.1	V
	(Max.)	$\mathbf{V}_{\mathbf{F}}$	3.8	V
Reverse current VR = 5V	(Max.)	I _R	10	μΑ
Optical efficiency IF = 20mA	(Тур.)	η _{ορτ}	-	lm/W

Luminous Intensity Bin Groups

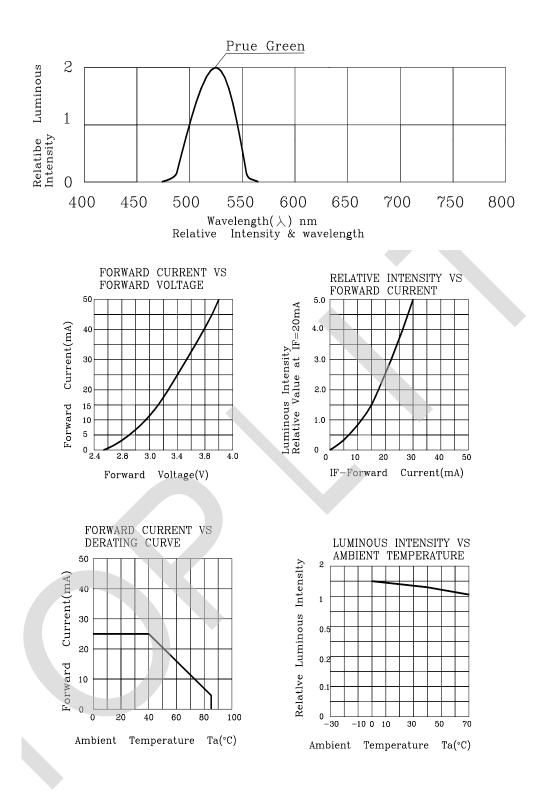
 $(T_A = 25 \text{ °C \& } I_F = 20 \text{ mA})$

Bin Code	Luminous Intensity Iv (mcd)			
Bill Code	Min.	Тур.	Max.	
Ν	7988	9186	10383	
Р	10384	11942	13499	
R	13500	15525	17549	

2



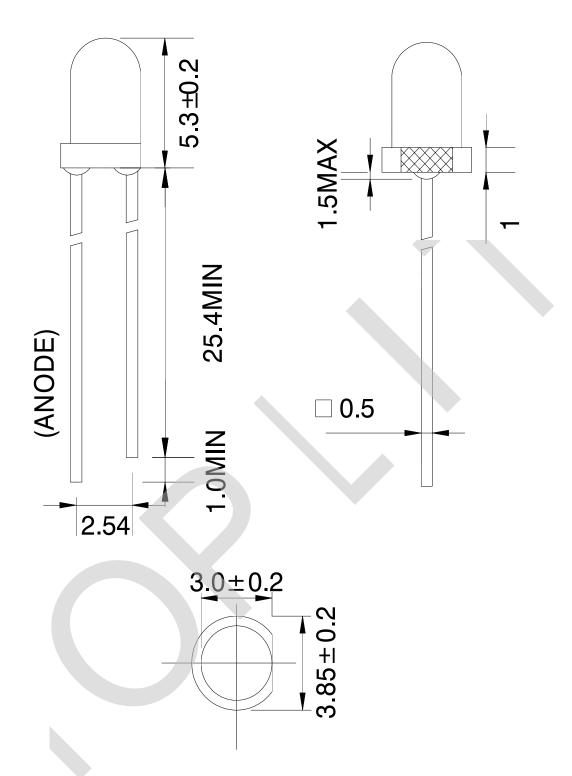
Electrical/Optical Charateristic (2)



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Package Outline Dimensions



Notes:

- 1. All dimensions are in millimeters. Tolerance is \pm -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.

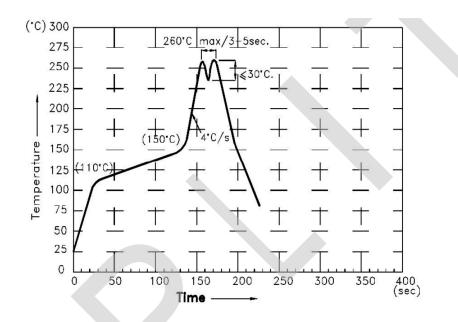
1. Manual Soldering Conditions(with 1.5mm Iron tip)

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:

- 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.

