Φ4.8MM BLUE ROUND LED

A-534H2B26C

Features

- Round type
- Blue emitting color
- Low current operation
- Lead free, RoHS compliant

Applications

- Indicator
- TV set
- Auto
- Monitor

Ordering Information

Part Number	Emission Color	Lens Color	Bin Code	Luminous Intensity IV (mcd) (IF=20mA)		
				Min.	Typ.	Max.
A-534H2B26C	Blue	Water Clear	H1	100	150	199
			H2	200	250	299
			H3	300	350	399

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Maximum Ratings

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

*1 at 1/10 Duty Cycle

Electrical / Optical Characteristics (1)

(T_A = 25 ºC)

Parameter		Symbol	Value	Unit
Wavelength at peak emission	**(Typ.)**	λ_P	460	nm
Dominant wavelength IF = 20mA	**(Typ.)**	λ_D	-	nm
Spectral bandwidth at 50% IF = 20mA	**(Typ.)**	$\Delta\lambda$	30	nm
Viewing angle at 50% IF = 20mA	**(Typ.)**	$2\theta_{1/2}$	57	degree
Forward voltage IF = 20mA	**(Min.)**	V_F	2.8	V
	(Typ.)	V_F	3.2	V
	(Max.)	V_F	3.8	V
Reverse current VR = 5V	**(Max.)**	I_R	10	μA
Optical efficiency IF = 20mA	**(Typ.)**	η_{OPT}	-	lm/W

Luminous Intensity Bin Groups

(T_A = 25 ºC & I_F = 20 mA)

Bin Code	Luminous Intensity Iv (mcd)		
	Min.	Typ.	Max.
H1	100	150	199
H2	200	250	299
H3	300	350	399

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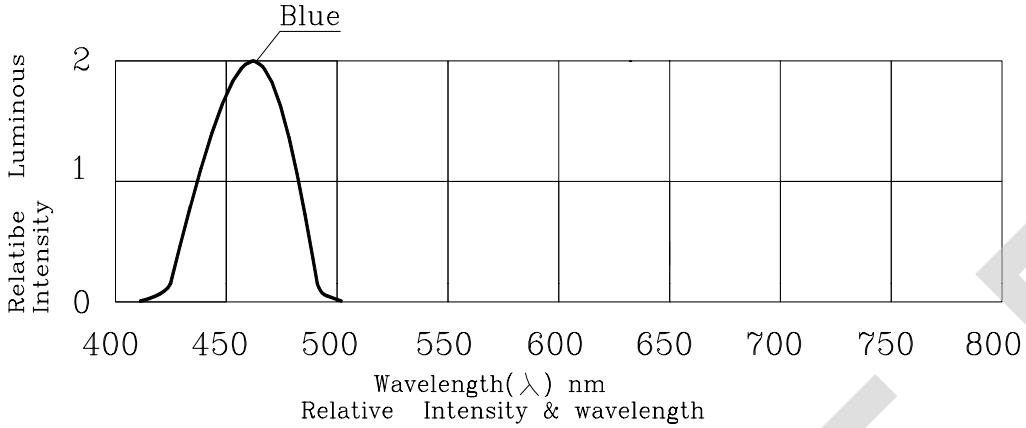
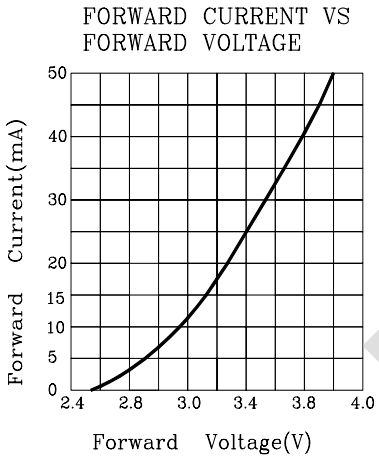
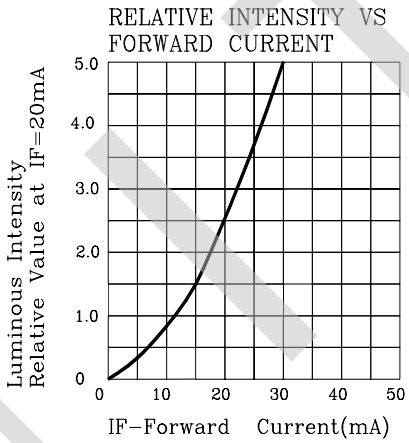
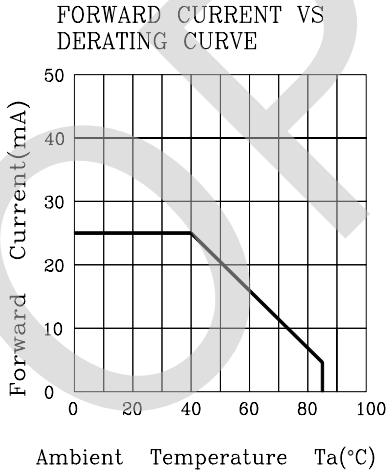
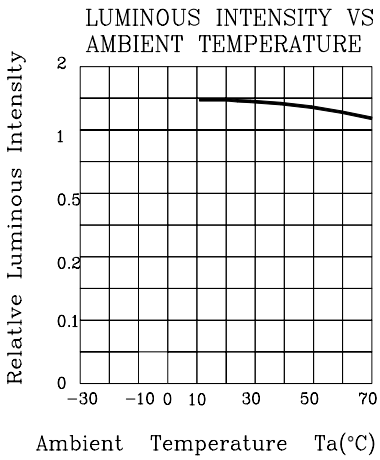
Electrical/Optical Charateristic (2)











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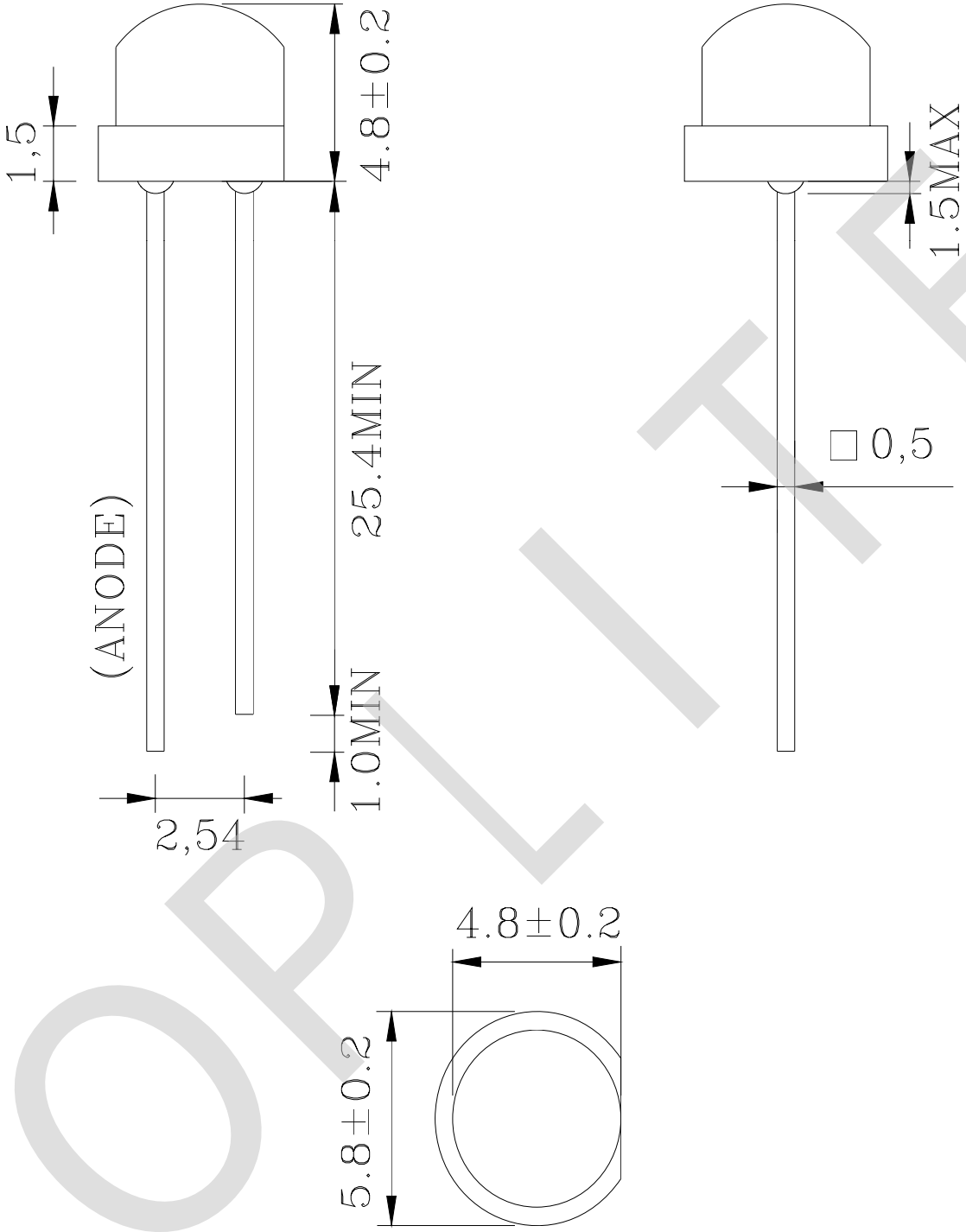
Package Outline Dimensions



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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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.

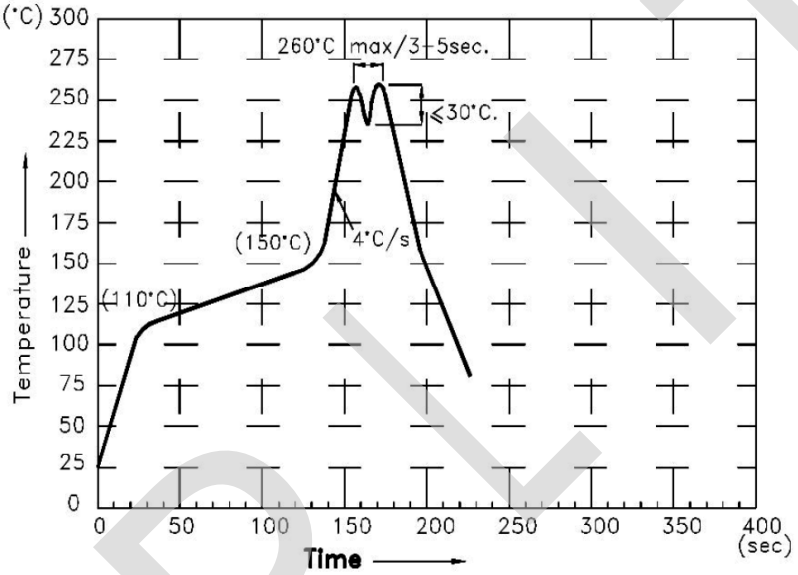
1 . Manual Soldering Conditions(with 1.5mm Iron tip)

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.