

3.2×1.95MM WHITE RECTANGULAR LED

A-234H7W52C-612

Features

- Rectangular legend
- White 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-234H7W52C-612	White	Water Clear	-	600	800	1000

Maximum Ratings

Parameter	Symbol	Value	Unit
Operating temperature	T _{OP}	-40 ~ 85	°C
Storage temperature	T _{STG}	-40 ~ 85	°C
Forward current (T _A =25 °C)	I _F	30	mA
Peak forward current (T _A =25 °C) *1	I _{PF}	150	mA
Reverse voltage (T _A =25 °C)	V _R	5	V
Power consumption (T _A =25 °C)	P	80	mW

*1 at 1/10 Duty Cycle

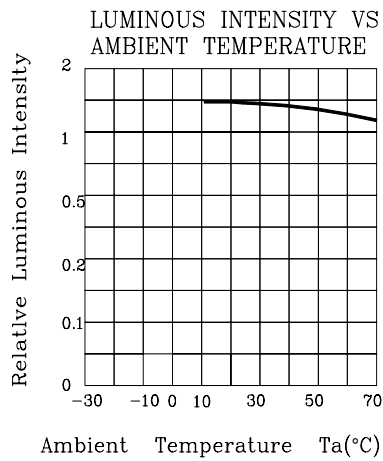
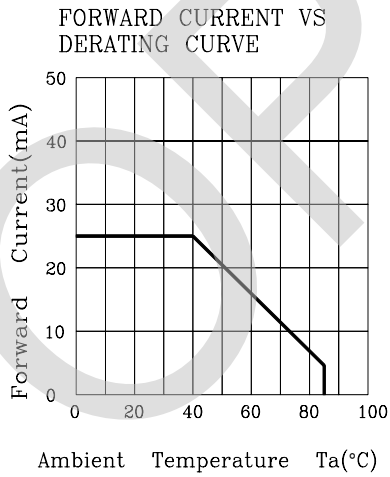
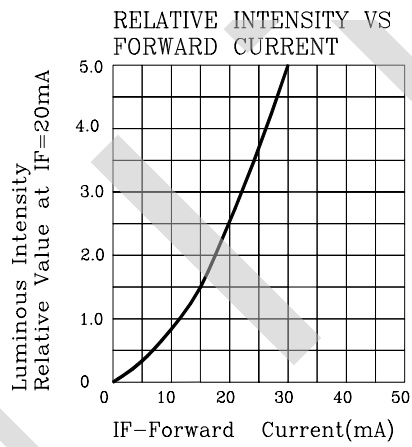
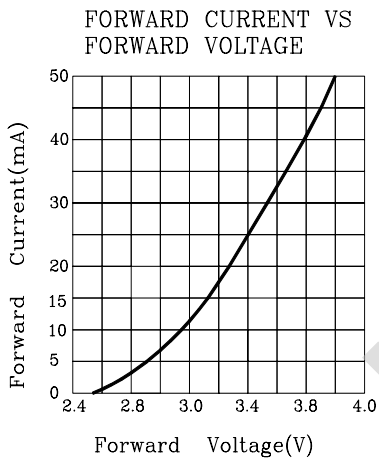
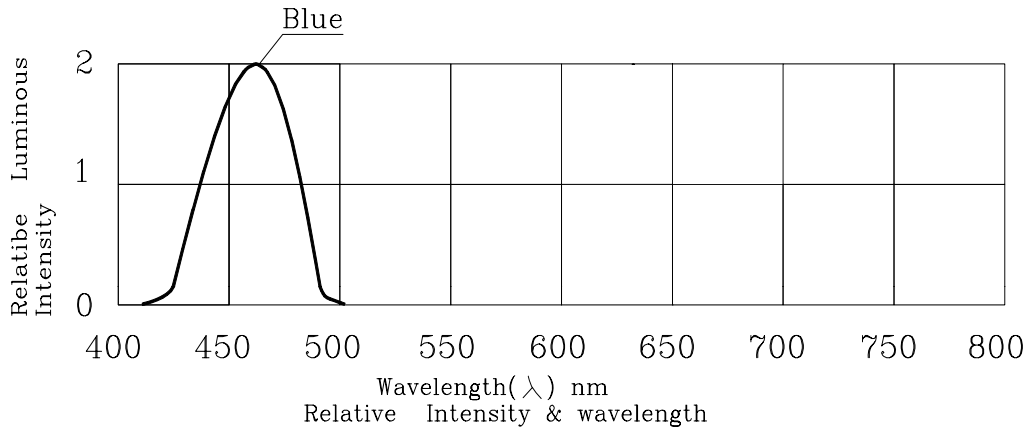
Electrical / Optical Characteristics (1)(T_A = 25 °C)

Parameter		Symbol	Value	Unit	Condition
Wavelength at peak emission	(Typ.)	λ _P	460	nm	IF = 20mA
Dominant wavelength	(Typ.)	λ _D	-	nm	IF = 20mA
Spectral bandwidth at 50%	(Typ.)	Δλ	30	nm	IF = 20mA
Viewing angle at 50%	(Typ.)	2θ _{1/2}	118	degree	IF = 20mA
Forward voltage	(Min.)	V _F	2.8	V	IF = 20mA
	(Typ.)	V _F	3.1	V	
	(Max.)	V _F	3.8	V	
Reverse current	(Max.)	I _R	10	μA	VR = 5V
Color Temperature	(Typ.)	T _c	11500	K	IF = 20mA
Color coordinates	(Typ.)	X Axis	0.278	-	IF = 20mA
		Y Axis	0.283	-	
Luminous Flux	(Typ.)	Φ	3.3	lm	IF = 20mA
Luminous Efficiency	(Typ.)	η	54	lm/W	IF = 20mA

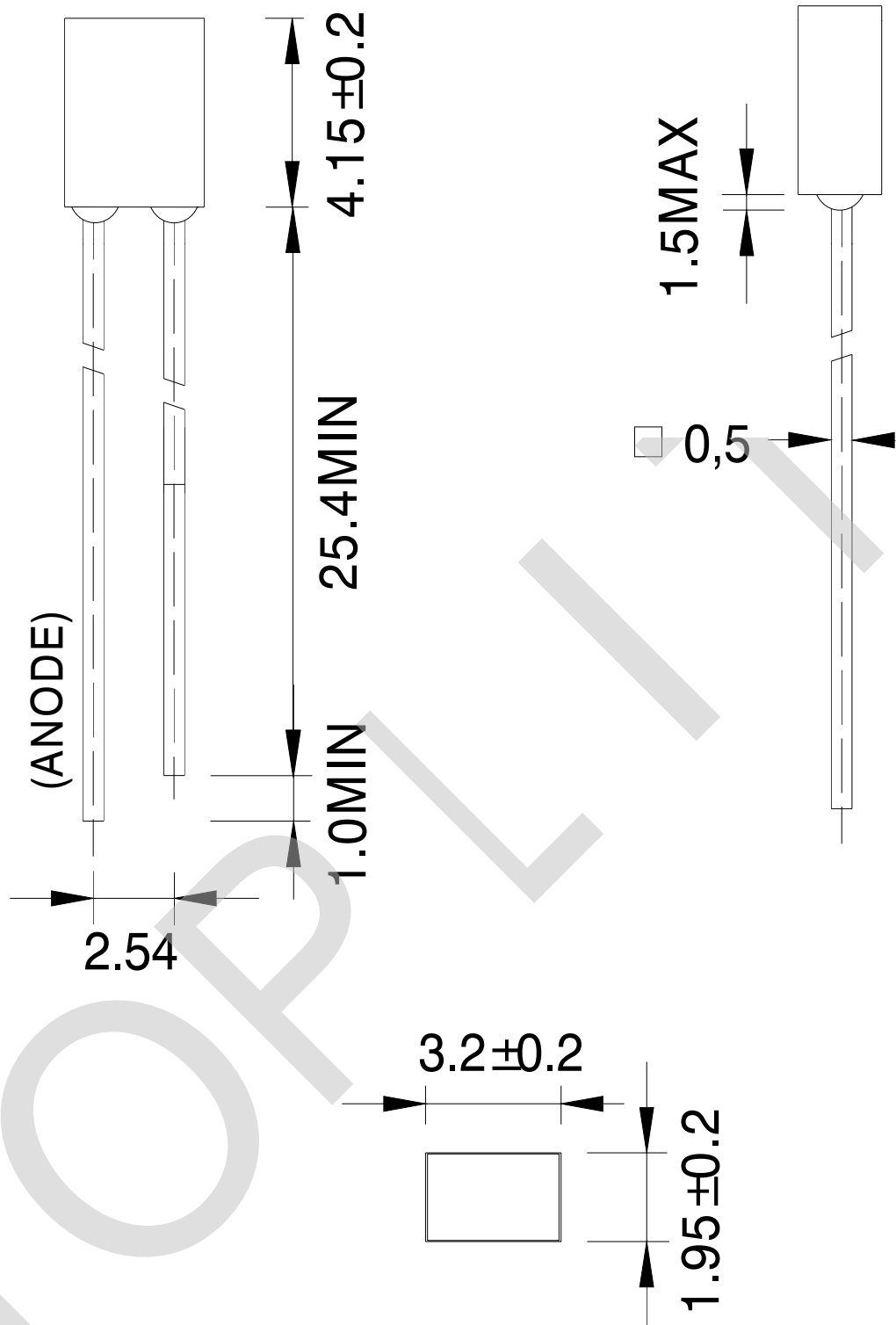
Luminous Intensity Bin Groups(T_A = 25 °C & I_F = 20 mA)

Bin Code	Luminous Intensity I _v (mcd)		
	Min.	Typ.	Max.
-	600	800	1000

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.

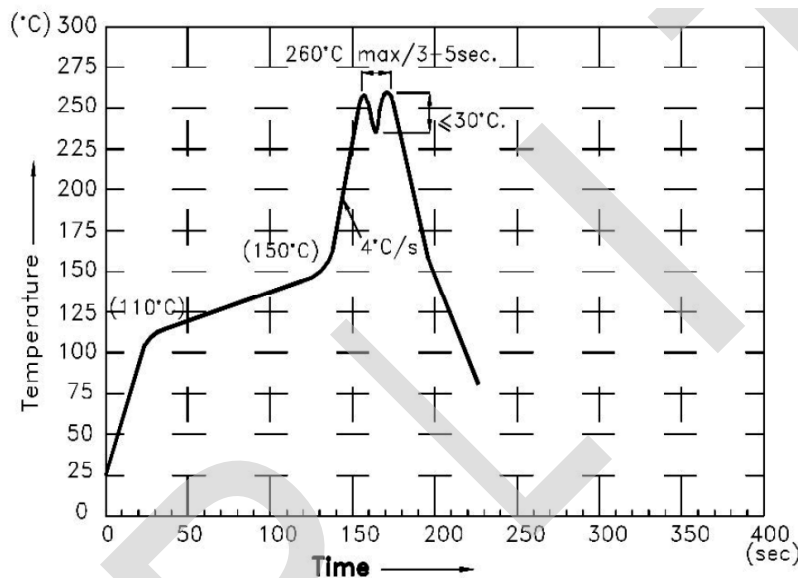
1 . Manual Soldering Conditions(with 1.5mm Iron tip)

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:

- 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.
- 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 TOPLITE for compatibility.