

SMD ■ B

15-21/W1D-APQHY/2T

Features

- Package in 8mm tape on 7

- Telecommunication: indicator and backlighting in telephone and fax.
- Flat backlight for LCD, switch and symbol.
- General use.

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Device Selection Guide

Chip Materials	Emitted Color	Resin Color
InGaN	White	Yellow Diffused

Absolute Maximum Ratings (Ta=25)

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Electro-Optical Characteristics (Ta=25)

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Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
P	45.0	72.0	mcd	$I_F = 5\text{mA}$
Q	72.0	112.0		

Bin Range Of Forward Voltage

Bin Code	Min.	Max.	Unit	Condition
15	2.70	2.85	V	$I_F = 5\text{mA}$
16	2.85	3.00		
17	3.00	3.15		

Note:

1. Tolerance of Luminous Intensity: ± 11
2. Tolerance of Forward Voltage: $\pm 0.1\text{V}$

Chromaticity Coordinates Specifications for Bin Grading

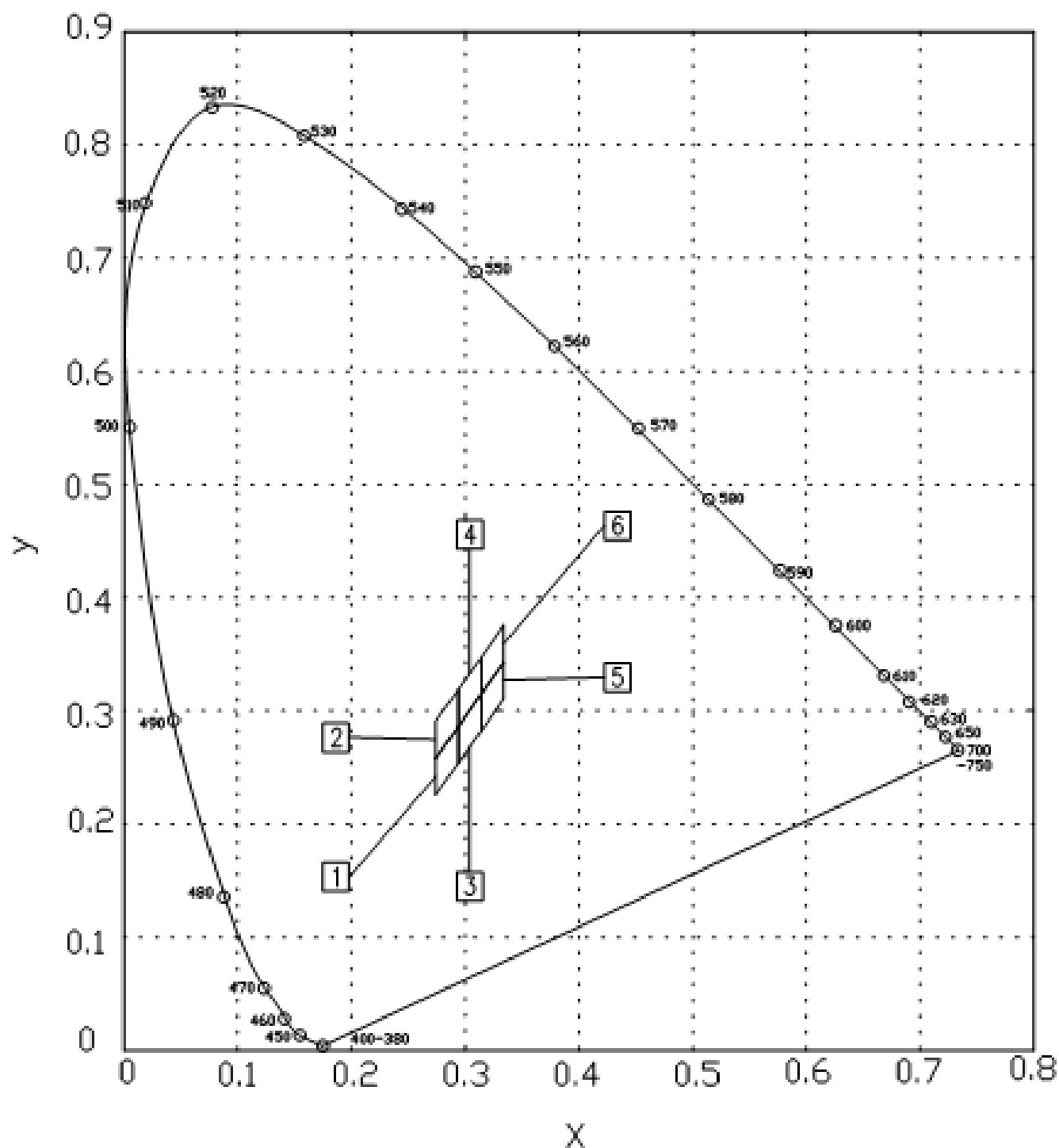
Bin Code	CIE_x	CIE_y	Condition
1	0.274	0.226	$I_F = 5mA$
	0.274	0.258	
	0.294	0.286	
	0.294	0.254	
2	0.274	0.258	
	0.274	0.291	
	0.294	0.319	
	0.294	0.286	
3	0.294	0.254	
	0.294	0.286	
	0.314	0.315	
	0.314	0.282	
4	0.294	0.286	
	0.294	0.319	
	0.314	0.347	
	0.314	0.315	
5	0.314	0.282	
	0.314	0.315	
	0.334	0.343	
	0.334	0.311	
6	0.314	0.315	
	0.314	0.347	
	0.314	0.376	
	0.314	0.343	

Notes:

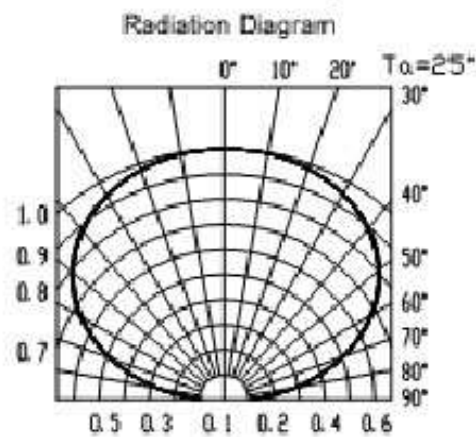
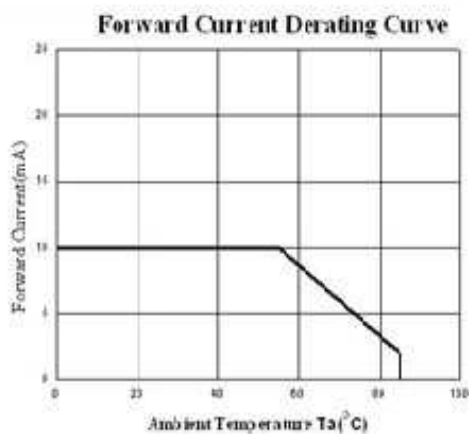
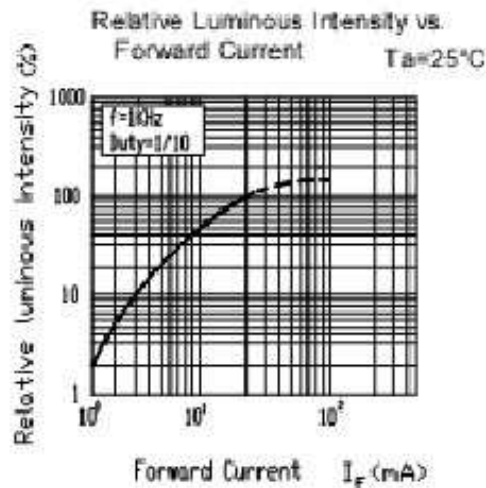
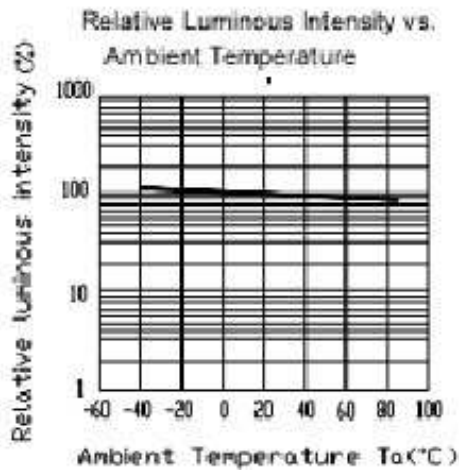
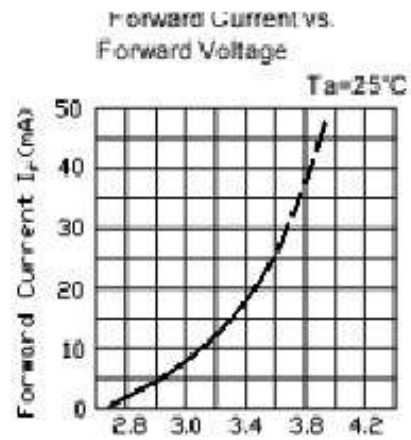
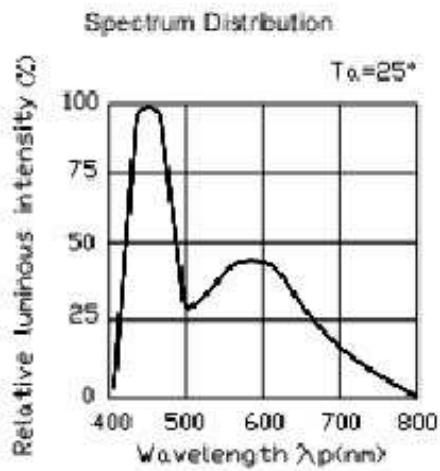
1.The C.I.E. 1931 chromaticity diagram (Tolerance

CIE Chromaticity Diagram

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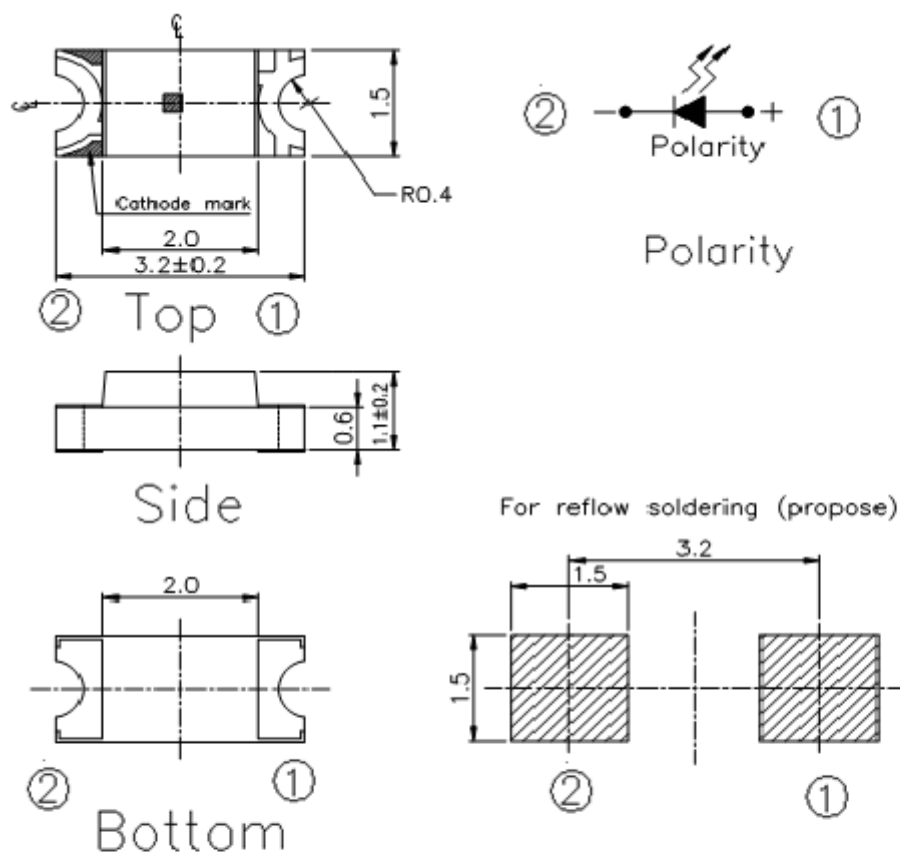


Typical Electro-Optical Characteristics Curves



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Package Dimension



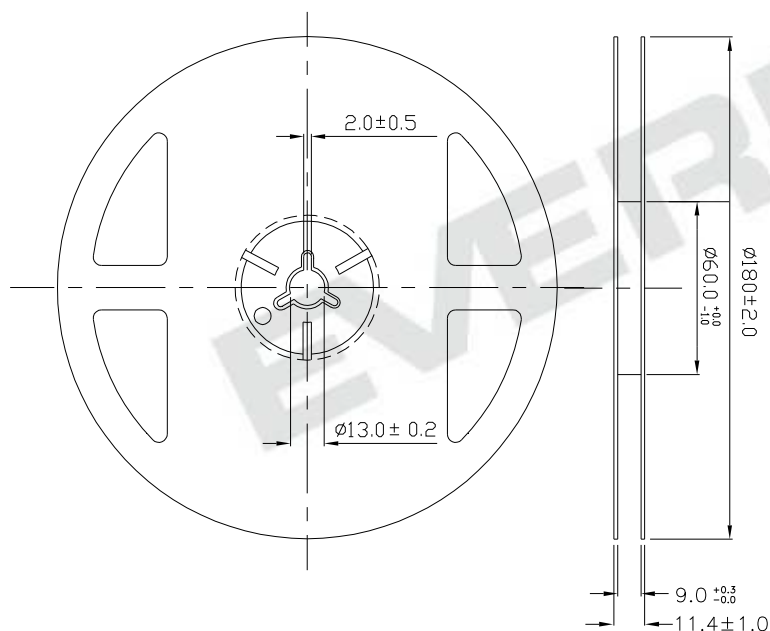
Suggested pad dimension is just for reference only.
Please modify the pad dimension based on individual need.

Note: Tolerances unless mentioned ± 0.1 mm. Unit = mm

Label Explanation

- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Chromaticity Coordinates & Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number

Reel Dimensions



Note: The tolerances unless mentioned is

Carrier Tape Dimensions: Loaded quantity 2000PCS per reel

Note: The tolerances unless mentioned is

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Precautions For Use

1. Over-current-proof

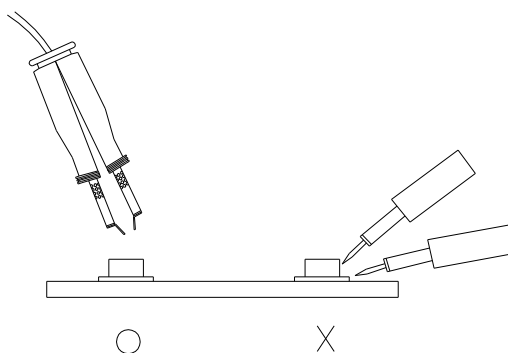
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 Before opening the package: The LEDs should be kept at 30

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Application Restrictions

High reliability applications such as military/aerospace, automotive safety/security systems, and medical equipment may require different product. If you have any concerns, please contact Everlight before using this product in your application. This specification guarantees the quality and performance of the product as an individual component. Do not use this product beyond the specification described in this document.

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