

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: <u>0805W2C-KHB-A</u>

Features

- Compatible with automatic placement equipment
- · Compatible with infrared and vapor phase reflow solder process
- Mono-color type
- Pb-free



Descriptions

- The 0805 SMD LED is much smaller than lead frame type components thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained
- Besides, lightweight makes them ideal for miniature applications.etc

Usage Notes:

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

- Automotive: Backlighting in dashboard and switch
- Telecommunication: Indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- General use



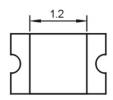
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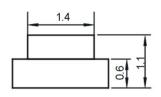
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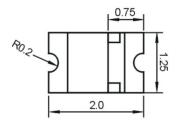
Device Selection Guide

LED Dord No.	Cł	nip	1	
LED Part No.	Material	Emitted Color	Lens Color	
0805W2C-KHB-A	InGaN	White	Water clear	

Package Dimensions







UNIT:mm

Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.



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Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I_{FPM}	70	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_{D}	140	mW
Operating Temperature	Topr	-40~+80	${\mathbb C}$
Storage Temperature	Tstg	-40~+100	${\mathbb C}$
Soldering Heat (5s)	Tsol	260	${\mathbb C}$

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	I_{V}	200		300	mcd	IF=20mA(Note 1)
Viewing Angle	$2\theta_{1/2}$		120		Deg	(Note 2)
Peak Emission Wavelength	λр				nm	IF=20mA
Spectral Line Half-Width	$\triangle \lambda$	25	30	35	nm	IF=20mA
Forward Voltage	V_{F}	2.9		3.5	V	IF=20mA
Reverse Current	I_R			10	μΑ	VR=5V

Note:

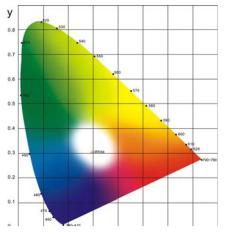
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



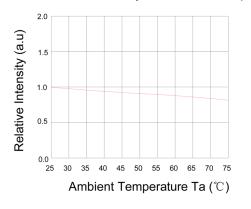
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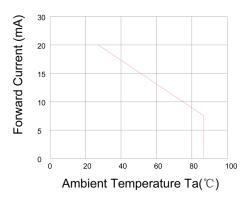
Typical Electro-Optical Characteristics Curves



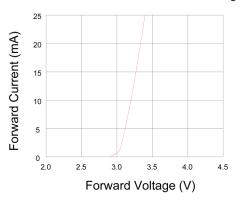
Relative Intensity VS. Ambient Temp



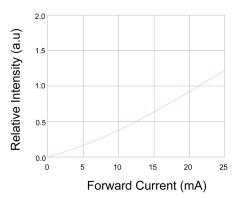
Forward Current VS.Ambient Temp.



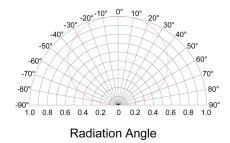
Forward Current VS.Forward Voltage



Forward Current VS.Relative Intensity



Radiation Characteristics





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Notes

- 1. Above specification may be changed without notice. HYLED will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. HYLED assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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