

PRELIMINARY SPEC

Part Number: KB-1805YC

YELLOW

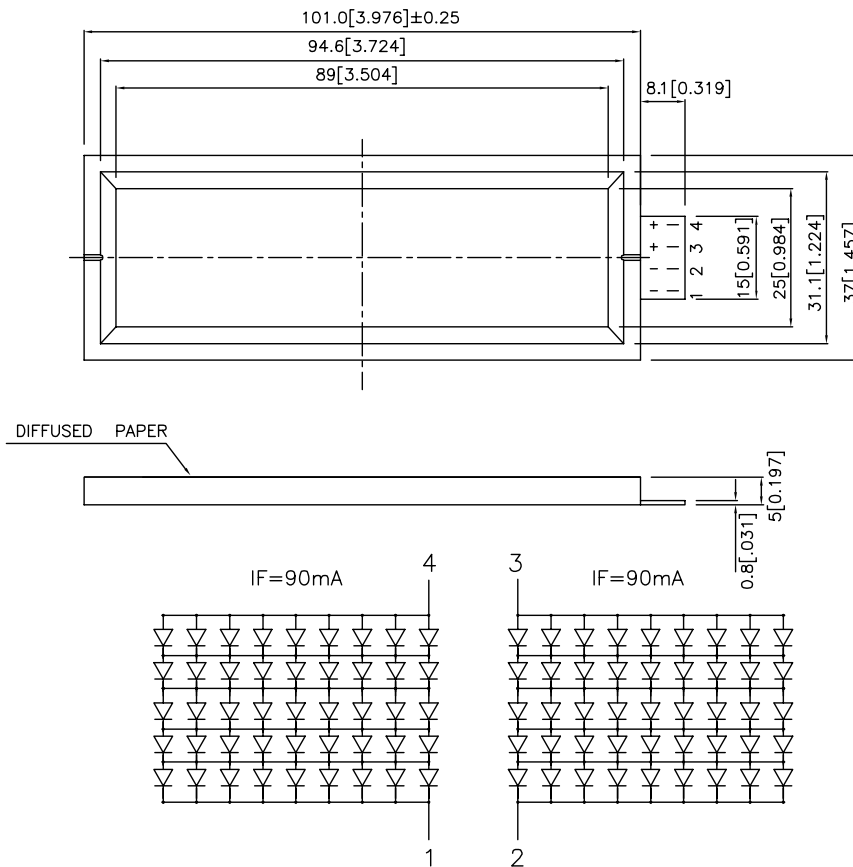
Features

- LOW POWER REQUIREMENTS.
- LARGE AREA, UNIFORM, BRIGHT LIGHT EMITTING SURFACE.
- EASY FOR INSTALLATION.
- LOW POWER CONSUMPTION.
- RoHS COMPLIANT.

Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
2. Specifications are subject to change without notice.



Selection Guide

Part No.	Dice	Lens Type	Ev (lux) @180mA	
			Min.	Typ.
KB-1805YC	YELLOW (GaAsP/GaP)	WATER CLEAR	94	141

Note:

- The distance is 34.3mm from Chroma Meter to material's surface.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Yellow	590	-	nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Yellow	588	-	nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow	35	-	nm	I _F =20mA
C	Capacitance	Yellow	20	-	pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Yellow	10.5	12.5	V	I _F =20mA
I _R	Reverse Current	Yellow	-	90	uA	V _R =25V

Notes:

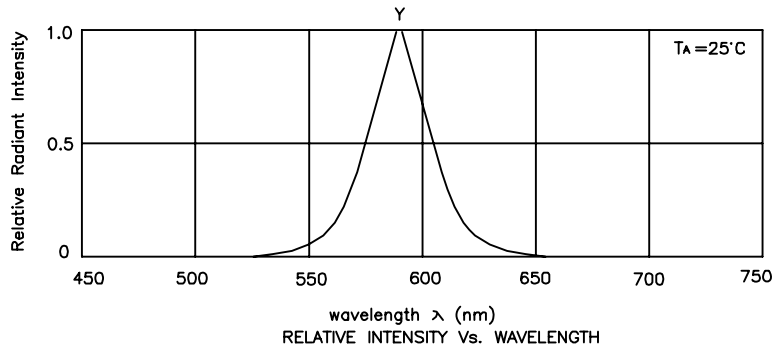
- Wavelength: +/-1nm.
- Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at T_A=25°C

Parameter	Yellow	Units
Power dissipation	3375	mW
DC Forward Current	270	mA
Peak Forward Current [1]	1260	mA
Reverse Voltage	25	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3-5 Seconds	

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.



Yellow

KB-1805YC

