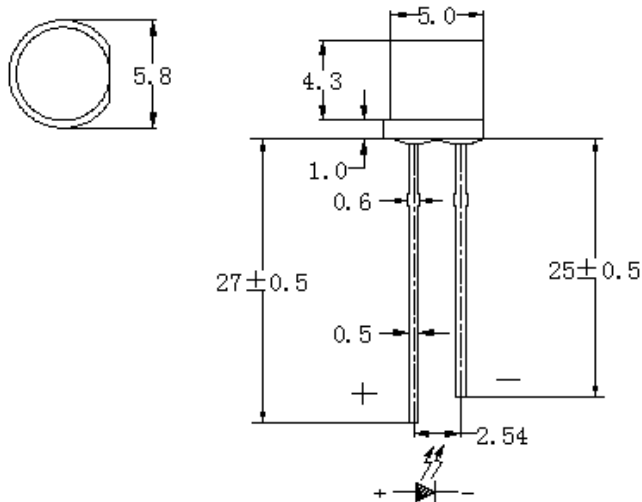


## Features

- ◆ Standard 5mm diameter package
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

## Package Dimension:



NOTE: TOLERANCE  $\pm 0.2\text{mm}$

Part NO.	Material	Lens Color	Source Color
5Y3VC-B80J590	AlGaInP	Water Clear	Yellow

## Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(.10)$  mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm(.04") max.
4. Lead spacing is measure where the leads emerge from the package.
5. Specifications are subject to change without notice.
6. Caution in ESD:  
Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

**Absolute Maximum Ratings at Ta=25°C**

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds	

**Electrical Optical Characteristics: at Ta=25°C**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	1200	1400	---	mcd	$I_F=20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	---	80	---	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	---	590	---	nm	$I_F=20\text{mA}$
Dominant Wavelength	$\lambda_d$	---	592	---	nm	$I_F=20\text{mA}$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$	---	20	---	nm	$I_F=20\text{mA}$
Forward Voltage	$V_F$	1.9	2.0	2.3	V	$I_F=20\text{mA}$
Reverse Current	$I_R$	---	---	10	$\mu\text{A}$	$V_R=5\text{V}$

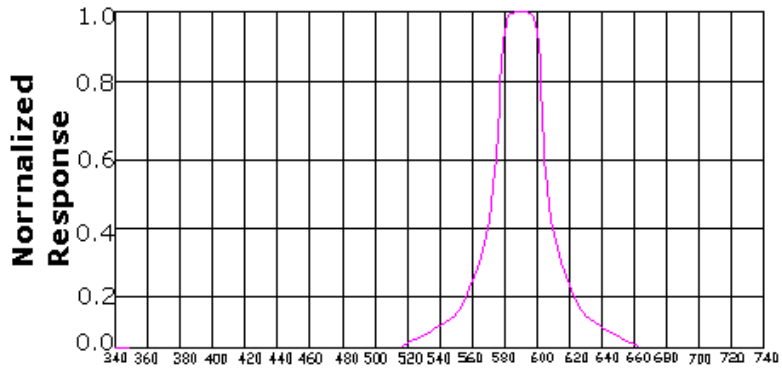
**Notes:**

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.
3. The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength, which defines the color of the device.

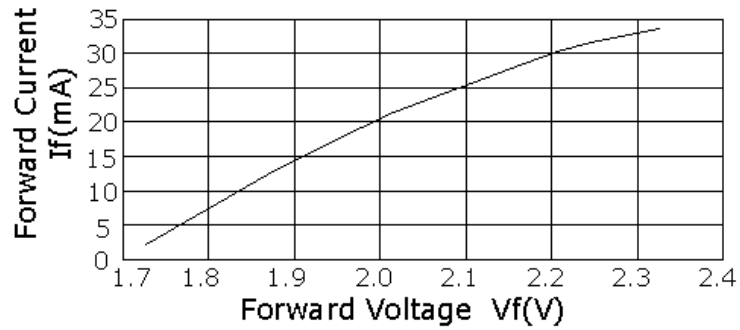
Part No.	5Y3VC-B80J590	Spec No.		Page	2 of 3
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Typical Electrical/Optical Characteristics Curves  
 (25°C Ambient Temperature Unless Otherwise Noted)

Spectral Radiance( Peak@590nm )



Forward Current VS Forward Voltage



Relative Luminous Intensity vs Forward Current

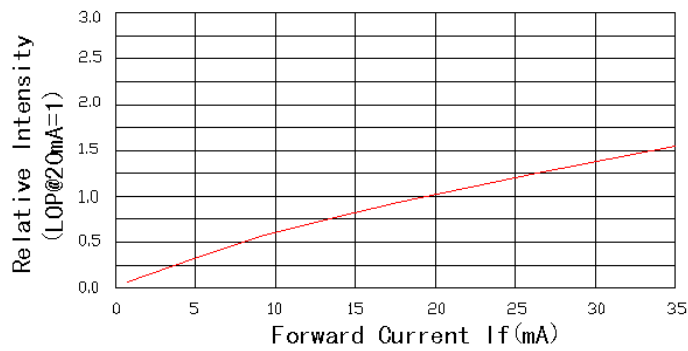


Fig6 Relative Radiant Intensity VS. Angular Displacement

