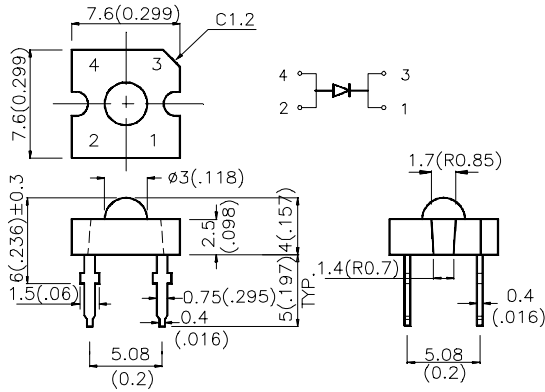


Package Dimensions

7.6mmx7.6mm SUPER FLUX

E7676CSYC SUPER BRIGHT YELLOW



Features

- 1.SUPER FLUX OUTPUT.
- 2.DESIGN FOR HIGH CURRENT OPERATION.
- 3.OUTSTANDING MATERIAL EFFICIENCY.
- 5.RELIABLE AND RUGGED.

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Description

The Super Bright Yellow source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

Selection Guide

Part No.	Emitting Color +Material	$\lambda D(nm)$	Lens Type	Iv (mcd) @ 20 mA *70mA		Viewing Angle
				Min.	Typ.	
E7676CSYC	InGaAlP	588	WATER CLEAR	200	400	70°
				*300	*700	70°

Notes:

1. $\theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. *Luminous intensity with asterisk is measured at 70 mA.

Electrical / Optical Characteristics at $T_A=25^{\circ}\text{C}$

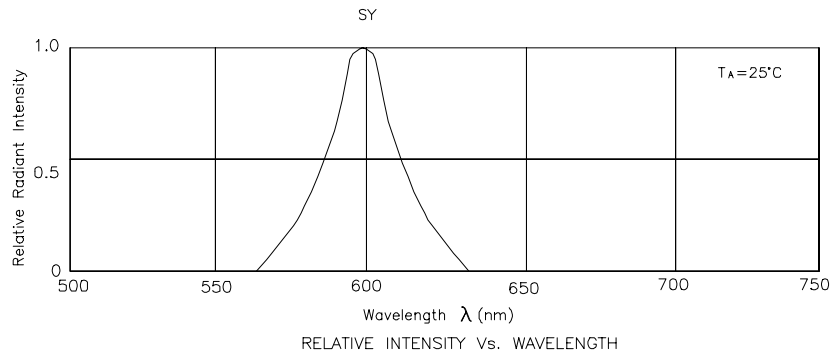
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Yellow	590		nm	$I_F=20\text{mA}$
λ_D	Dominate Wavelength	Super Bright Yellow	588		nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Super Bright Yellow	28		nm	$I_F=20\text{mA}$
C	Capacitance	Super Bright Yellow	25		pF	$V_F=0\text{V}; f=1\text{MHz}$
V_F	Forward Voltage	Super Bright Yellow	2.0	2.5	V	$I_F=20\text{mA}$
I_R	Reverse Current	Super Bright Yellow		10	μA	$V_R = 5\text{V}$

Absolute Maximum Ratings at $T_A=25^{\circ}\text{C}$

Parameter	Super Bright Yellow	Units
Power dissipation	125	mW
DC Forward Current	30	mA
Peak Forward Current [1]	175	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Soldering Temperature [2]	260°C For 5 Seconds	

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



Super Bright Yellow E7676CSYC

