



## Part No. Hi-05ASWC-00B2

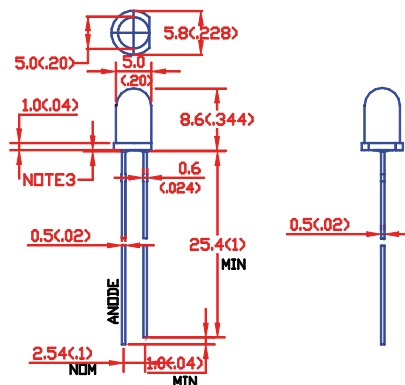
§ Standard 5 mm diameter package.

### Characters

§ High intensity.

ITEM	MATERIALS	
Resin(Mold)	Epoxy	
Lens Color Code	C	Water Transparent
	T	Colored Transparent
	D	White Diffused
	E	Colored Diffused
Lead Frame	Ag Plating Iron Alloy	
Dice	InGaN	

## Outline Dimensions



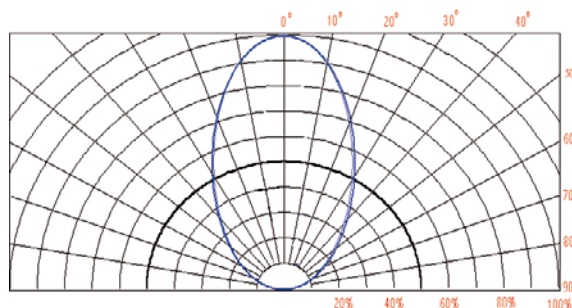
- § All dimensions are in millimeters (inches)
- § Tolerance is  $\pm 0.25$  (.010) mm unless otherwise noted.
- § Protruded resin under flange is 1.0 mm (.04) max.

## Absolute Maximum Ratings ( $T_a=25^\circ\text{C}$ )

Item	Symbol	Value	Unit
Power Dissipation	PD	120	mW
DC Forward Current	IF	30	mA
Pulsed Forward Current	IFP	100*	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-25 ~ +80	$^\circ\text{C}$
Storage Temperature	Tstg	-40 ~ +100	$^\circ\text{C}$
Soldering Temperature	Tsol	260for5sec	$^\circ\text{C}$

\* Duty 1/10 Pulse Width 0.1ms  $\Delta$  At the position of 4mm from the bottom of the package

## Directive Characteristics ( $T_a=25^\circ\text{C}$ )



## Electrical-Optical Characteristics ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Value			Unit	Test condition
		Min.	Typ.	Max.		
Forward Voltage	$V_f$	3.0	---	3.4	V	$I_f=20\text{mA}$
Luminous intensity	$I_v$	4000	---	7000	mcd	$I_f=20\text{mA}$
Wavelength	$x(\&\lambda d)$	---	0.2936	---	(nm)	$I_f=20\text{mA}$
	y	---	0.2865	---	---	$I_f=20\text{mA}$
Reverse Current	$I_r$	---	---	5	$\mu\text{A}$	$V_r=5\text{V}$
Viewing angle	$2\theta_{1/2}$	---	60	---	Deg	$I_f=20\text{mA}$
Spectral half bandwidth	$\Delta\lambda$	---	---	---	nm	$I_f=20\text{mA}$



## Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

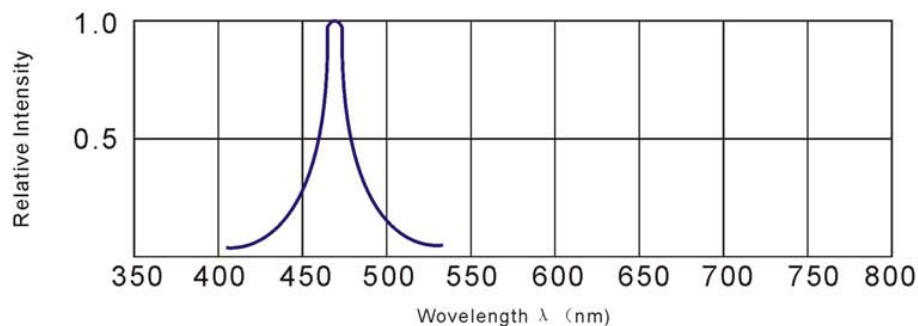


Fig.1 Relative Luminous flux vs. Wavelength

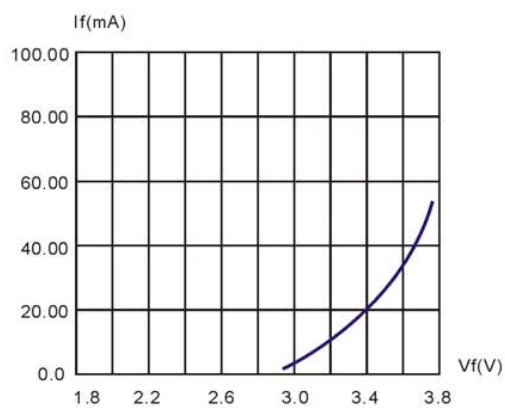


Fig.2 Forward Current vs. Forward Voltage

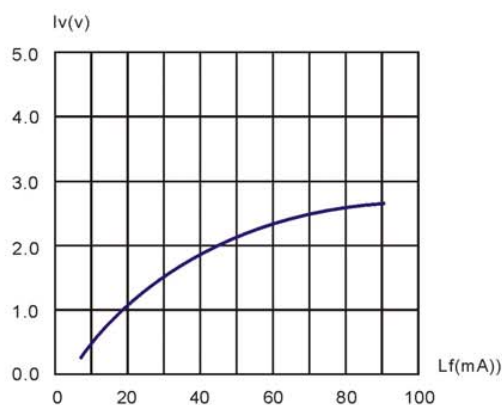


Fig.3 Relative Luminous flux vs. Forward Current

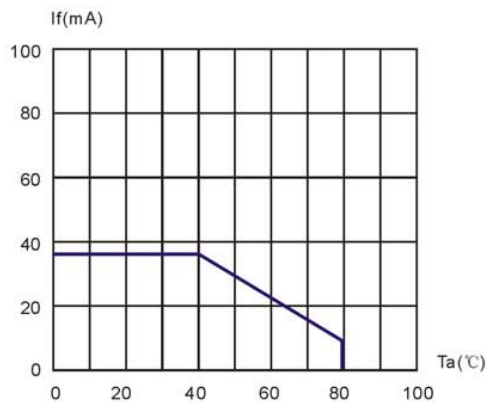


Fig.4 Forward Current Derating Curve