

SUPERLIGHT®

Part No. HI-G05A4SWDAC-005NO1C

Outline Dimensions

(White)

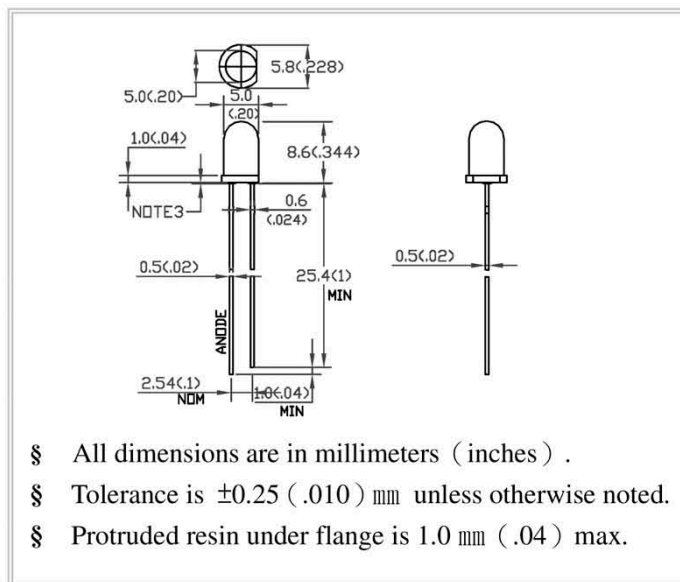
19/04352-00

§ Standard 5mm 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	

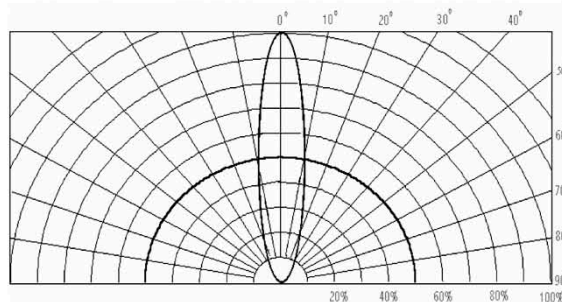


Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Value	Unit
Power Dissipation	PD	120	mW
DC Forward Current	IF	50	mA
Pulsed Forward Current	IFP	600*	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-25 ~ +80	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	Tsol	260for5secΔ	°C

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

Directive Characteristics (Ta=25°C)



Electrical-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Value			Unit	Test condition
		Min.	Typ.	Max.		
Forward Voltage	V _f	3.0	3.2	3.4	V	I _f =20mA
Luminous intensity	I _v	8000	10000	14000	mcd	I _f =20mA
Wavelength	x(& λ d)	---	0.2982	---	(nm)	I _f =20mA
	y	---	0.2916	---	---	I _f =20mA
Reverse Current	I _r	---	---	5	μA	V _r =5V
Viewing angle	2θ _{1/2}	---	20	---	Deg	I _f =20mA
Spectral half bandwidth	Δλ	---	---	---	nm	I _f =20mA



Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

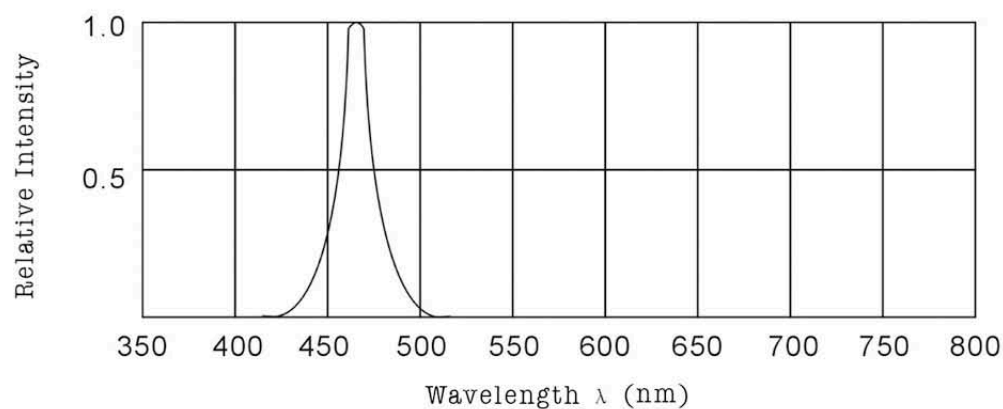


Fig. 1 Relative Intensity vs. Wavelength

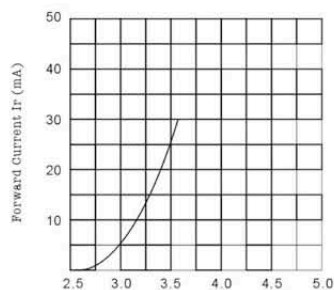


Fig. 2 Forward Current vs. Forward Voltage

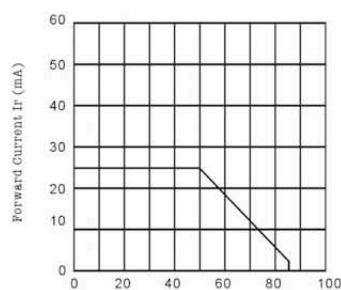


Fig. 3 Forward Current Derating Curve

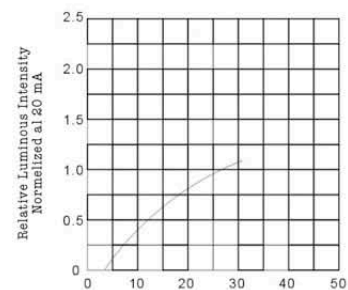


Fig. 4 Relative Luminous Intensity vs. Forward Current