

SI5313-C / SI5313-C(B)

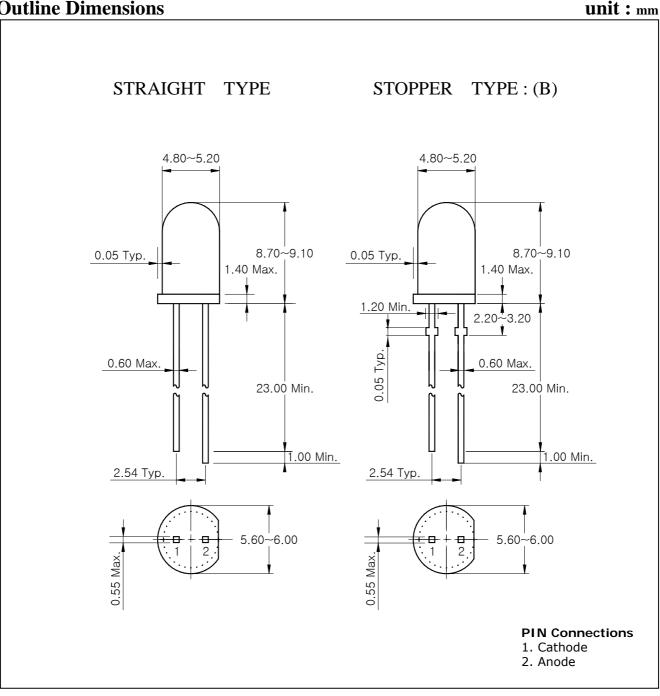
Features

- Colorless transparency lens type
- \$\$\phi 5mm(T-13/4)\$ all plastic mold type
- Low power consumption

Applications

• Infrared remote control and free air transmission systems with low forward voltage and comfortable radiation angle requirements in combination with PIN photodiodes or phototransistors.

Outline Dimensions



SI5313-C / SI5313-C(B)

Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25℃)		
Characteristic	Symbol	Rating	Unit		
Power dissipation	P _D	180	mW		
Forward current	I _F	100	mA		
* ¹ Peak forward current	I_{FP}	1	А		
Reverse voltage	V _R	4	V		
Operating temperature range	T _{opr}	-25~85	Ĵ		
Storage temperature range	T _{stg}	-30~100	C		
* ² Soldering temperature	T _{sol}	260℃ for 10 seconds			

*1.Duty ratio = 1/16, Pulse width = 0.1ms

*2.Keep the distance more than 2.0mm from PCB to the bottom of IRED package

Electrical / Optical Characteristics

Electrical / Optical Characteristics				(Ta=25℃)			
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Forward voltage	V _F	I _F = 50mA	-	1.5	1.8	V	
Radiant intensity	I _E	I _F = 50mA	10	20	-	mW/Sr	
Peak wavelength	λ _P	I _F = 50mA	-	880	-	nm	
Spectrum bandwidth	Δ_{λ}	I _F = 50mA	-	50	-	nm	
Reverse current	I _R	V _R =4V	-	-	10	uA	
* ³ Half angle	$\theta^1/_2$	I _F = 50mA	-	±30	-	deg	

*3. θ 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

SI5313-C / SI5313-C(B)

Characteristic Diagrams

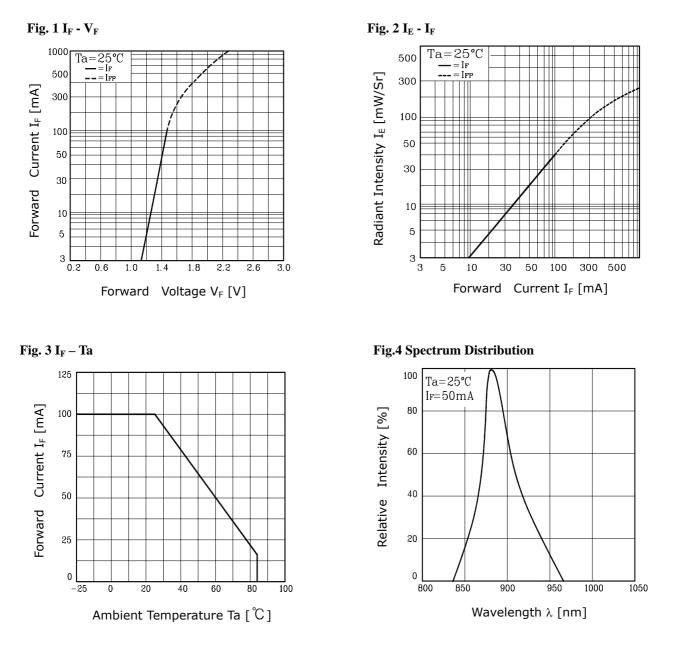
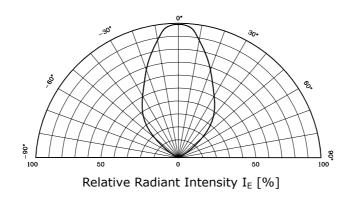


Fig. 5 Radiation Diagram



KSD-O2Q001-000

The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.