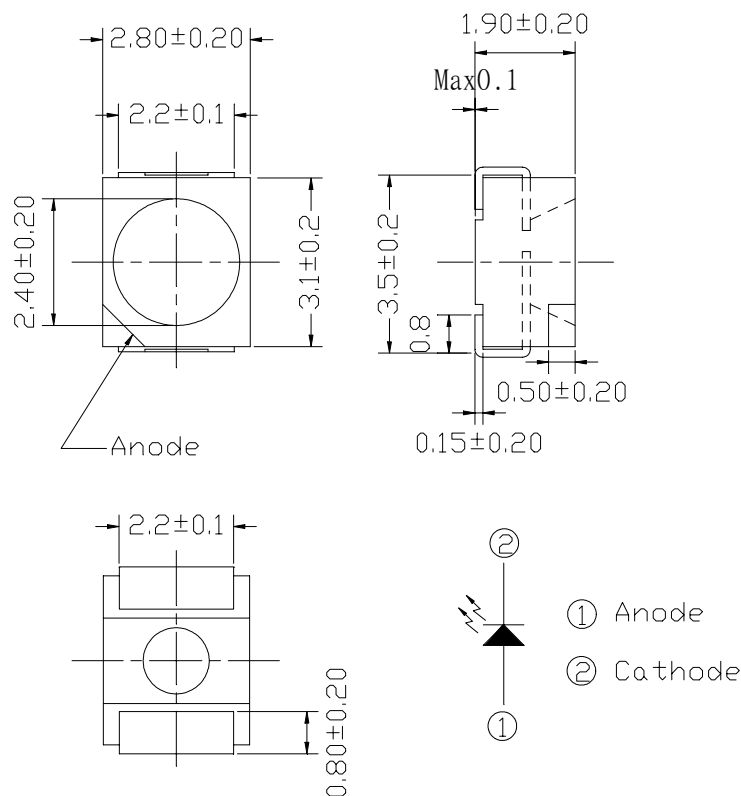




TOP Infrared LED

MODEL NO : SIR67-21C/L9/TR8

■ Package Dimensions :



■ Notes :

1. All dimensions are in millimeter.
2. General Tolerance: ± 0.1 mm
3. Lead spacing is measured where the lead emerge from the package .
4. Lens color : Water clear.
5. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
6. These specification sheets include materials protected under copyright of EVERLIGHT corporation . Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.
7. When using this product , please observe the absolute maximum ratings and the instructions for use outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.



TOP Infrared LED

MODEL NO : SIR67-21C/L9/TR8

■ Absolute Maximum Ratings at T_A = 25°C

Parameter	Symbol	Rating	Unit	Notice
Continuous Forward Current	I _F	65	mA	
Peak Forward Current Pulse width=100 μ s,Duty cycle=1%	I _{FP}	1.0	A	
Reverse Voltage	V _R	5	V	
Operating Temperature	Topr	-25 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85	°C	
Soldering Temperature	Tsol	260	°C	
Power Dissipation at(or below) 25°C Free Air Temperature	Pd	130	mW	

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Radiant Intensity	Ee	0.5	1.1	----	mW/sr	I _F =20mA
		----	4.5	----		I _F =100mA,tp=100 μ s, t _p /T=0.01
		----	40	----		I _F =1A,tp=100 μ s, t _p /T=0.01
Peak Wavelength	λ_p	----	875	----	nm	I _F =20mA
Spectral Bandwidth	$\Delta \lambda$	----	80	----	nm	I _F =20mA
Forward Voltage	V _F	----	1.3	1.6	V	I _F =20mA
		----	1.4	1.8		I _F =100mA,tp=100 μ s, t _p /T=0.01
		----	2.6	4.0		I _F =1A,tp=100 μ s, t _p /T=0.01
Reverse Current	I _R	----		10	μ A	V _R =5V
View Angle	2 Θ 1/2	----	120	----	deg	I _F =20mA



TOP Infrared LED

MODEL NO : SIR67-21C/L9/TR8

■ Typical Electrical/Optical/Characteristics Curves

Fig. 1 Forward Current vs. Ambient Temperature

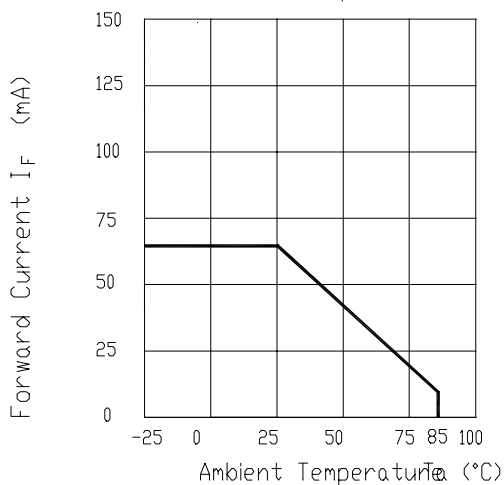


Fig. 2 Spectral Distribution

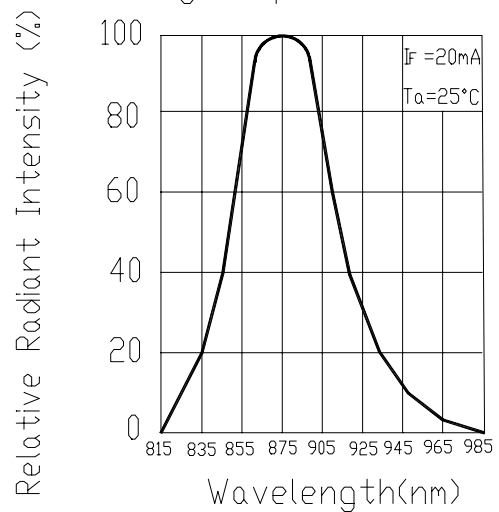


Fig. 3 Peak Emission Wavelength vs. Ambient Temperature

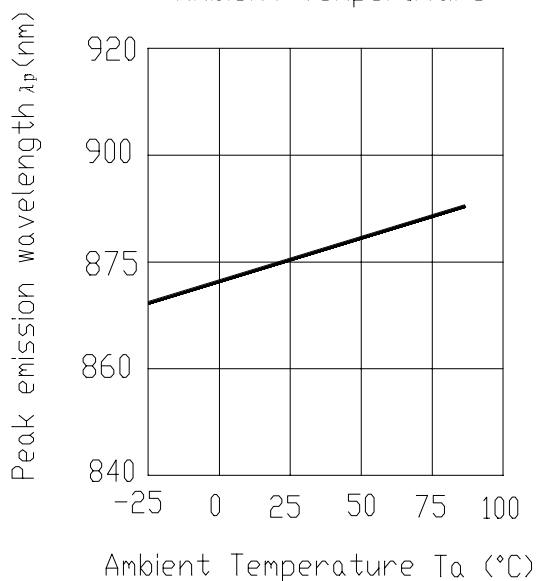
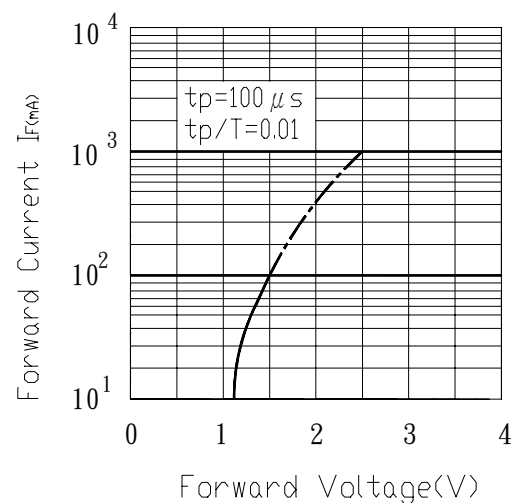


Fig. 4 Forward Current vs. Forward Voltage





TOP Infrared LED

MODEL NO : SIR67-21C/L9/TR8

■ Typical Electrical/Optical/Characteristics Curves

Fig. 5 Relative Intensity vs.
Forward Current

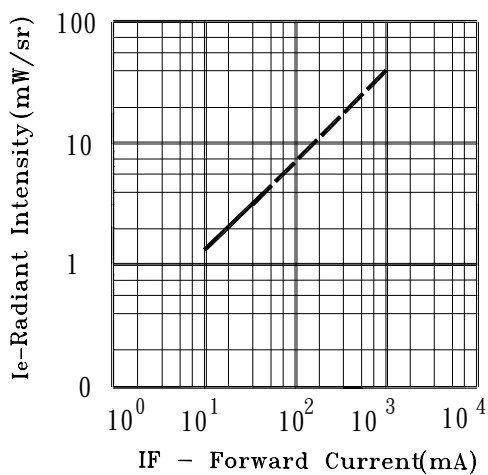


Fig. 6 Relative Radiant Intensity vs.
Angular Displacement

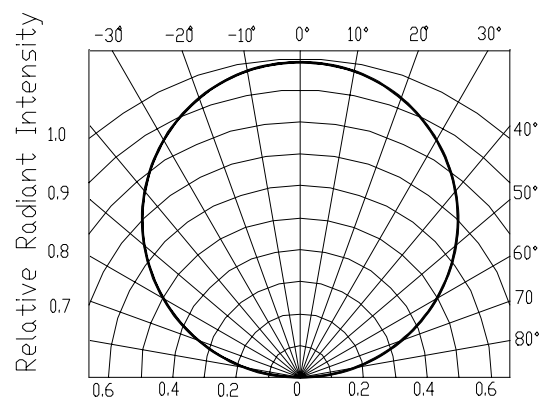


Fig. 7 Relative Intensity vs.
Ambient Temperature (°C)

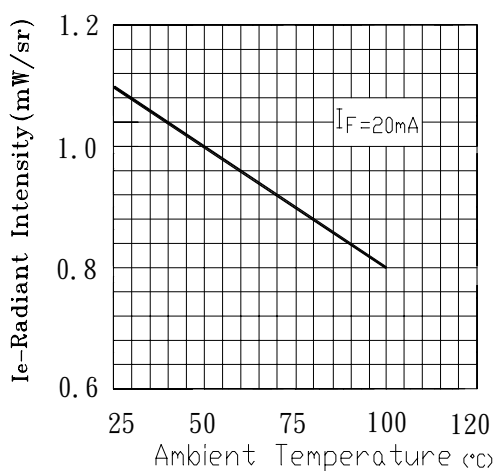
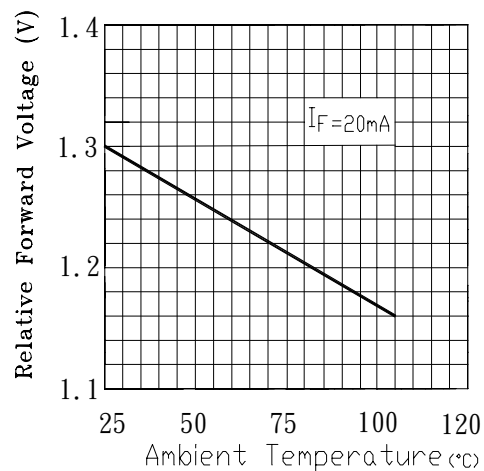


Fig. 8 Forward Current vs.
Ambient Temperature (°C)



TOP Infrared LED

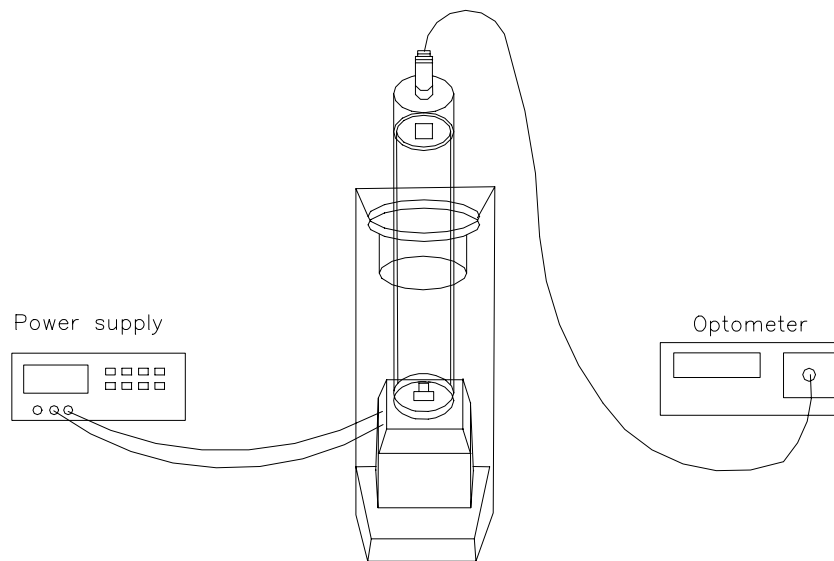
MODEL NO : SIR67-21C/L9/TR8

Test Method For Power :

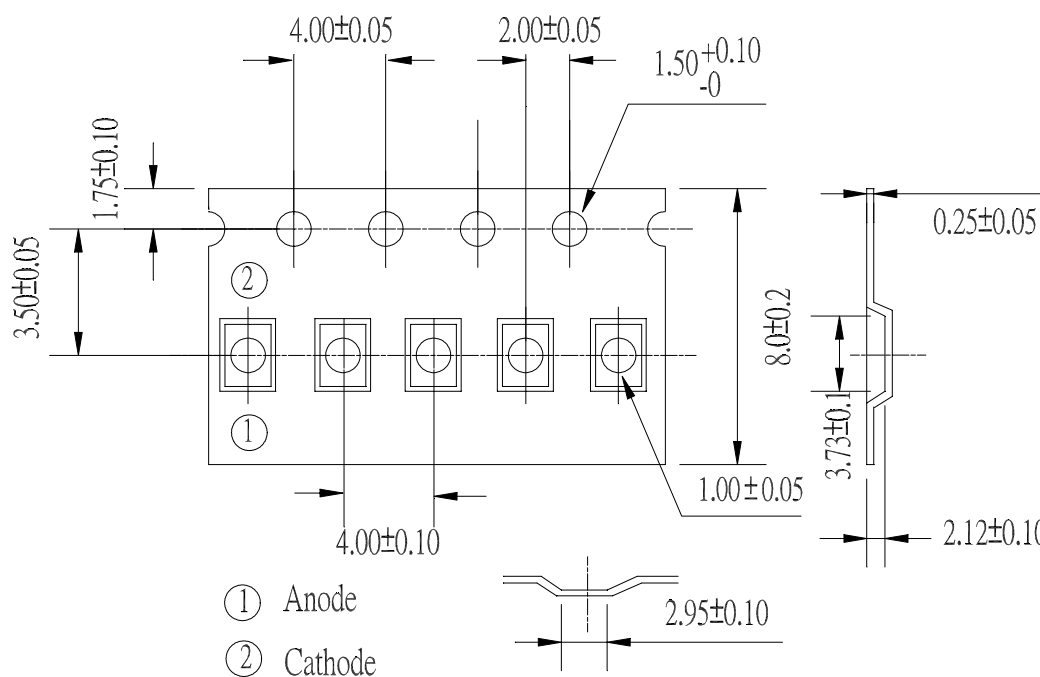
Condition : $I_F=20\text{ mA}$

Test Item : Radiant Intensity

Unit : mW/sr



Taping Dimensions:





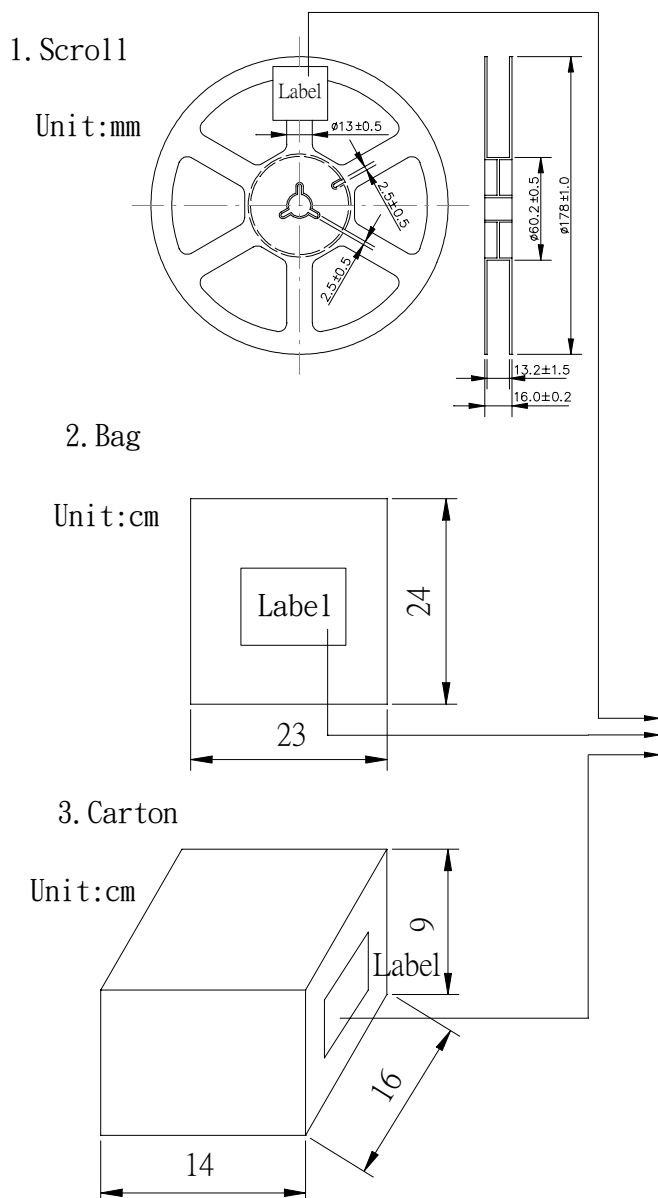
DEVICE NUMBER : DTS-067-036
ECN : _____

REV : 1.0
PAGE : 8/8

TOP Infrared LED

MODEL NO : SIR67-21C/L9/TR8

■ Packing Specifications



EVERLIGHT

CPN:

P/N:

SIR67-21C/L9/TR8

QTY:

LOT NO:

CAT:

HUE:

REF:

MADE IN TAIWAN

CPN : Customer's Production Number

P/N : Production Number

QTY : Packing Quantity

CAT : Ranks

HUE : Peak Wavelength

REF : Reference

LOT NO : Lot Number

MADE IN TAIWAN : Production place

■ Packing Quantity Specification

1. 2000 Pcs/1 Volume , 1 Volume/1Bag
2. 10 Bags/1Carton

SIR67-21C/L9/TR8