



DEVICE NUMBER : DIS-020-047
ECN : _____

REV : 1.1
PAGE : 1/8

3mm Infrared LED ,T-1

MODEL NO : SIR204/L9

■ Features :

- High radiant intensity
- Peak wavelength $\lambda_p=875\text{nm}$
- View angle 30°
- High reliability
- Low forward voltage

■ Description :

- EVERLIGHT's Infrared Emitting Diode (SIR204/L9) is a high intensity diode, molded in a blue transparent plastic package.

The device is spectrally matched with phototransistor, photodiode and infrared receiver module.

■ Applications :

- Free air transmission system
- Optoelectronic switch
- Infrared remote control units with high power requirement
- Floppy disk drive
- Infrared source for optical counter and card reader

PART NO.	CHIP	LENS COLOR
	MATERIAL	
SIR	GaAlAs	Blue



EVERLIGHT ELECTRONICS CO., LTD.

DEVICE NUMBER : DIS-020-047 REV : 1.1
 ECN : _____ PAGE : 6/8

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■ Reliability Test Item And Condition

The reliability of products shall be satisfied with items listed below.

Confidence level:90%

LTPD:10%

NO.	Item	Test Conditions	Test Hours/ Cycles	Sample Sizes	Failure Judgement Criteria	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 secs	22 pcs	$I_R \geq U \times 2$ $E_e \leq L \times 0.8$ $V_F \geq U \times 1.2$ U :Upper specification limit L :Lower specification limit	0/1
2	Temperature Cycle	H : +85°C 30 mins \updownarrow 5 mins \updownarrow L : -55°C 30 mins	50 cycles	22 pcs		0/1
3	Thermal Shock	H : +100°C 5 mins \updownarrow 10 secs \updownarrow L : -10°C 5 mins	50 cycles	22 pcs		0/1
4	High Temperature Storage	TEMP. : +100°C	1000 hrs	22 pcs		0/1
5	Low Temperature Storage	TEMP. : -55°C	1000 hrs	22 pcs		0/1
6	DC Operating Life	$I_F=20mA$	1000 hrs	22 pcs		0/1
7	High Temperature / High Humidity	85°C / 85% R.H.	1000 hrs	22 pcs		0/1



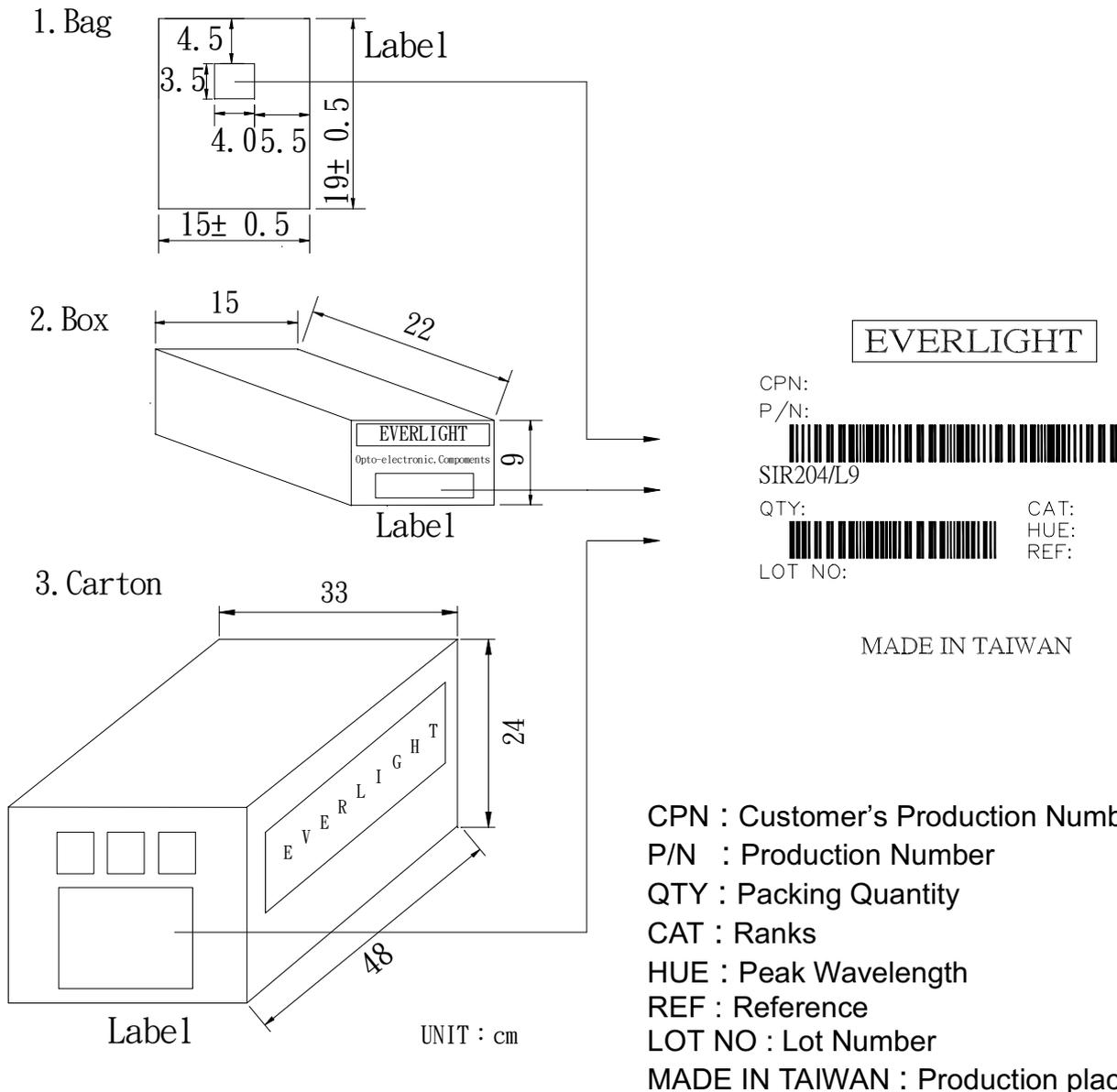
DEVICE NUMBER : DIS-020-047
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PAGE : 8/8

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■ Packing Specifications



■ Packing Quantity Specification

- 1000Pcs/1Bag , 4 Bags/1Box
- 10 Boxes/1Carton