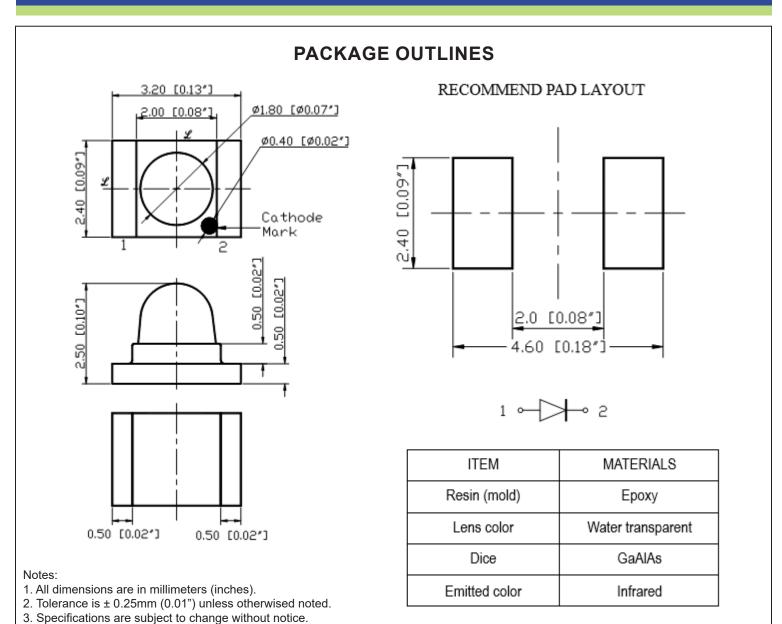


# SPECIFICATION CSD131IR880C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSD131IR880C	AlGaAs/GaAs	Infrared	Water Clear	15°





## **ABSOLUTE MAXIMUM RATINGS**

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Forward Current	lF	50	mA	
Reverse Current @ 5V	lR	10	μΑ	
Power Dissipation	Pd	80	mW	
Operating Temperature Range	Тор	-40~+80	°C	
Storage Temperature Range	Тѕтс	-40~+85	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lFP	1	А	
Soldering Temperature	TsoL	Max 260°C for 5 sec Max		

# **OPTICAL-ELECTRICAL CHARACTERISTICS**

(TA=25°C)

Devementer	Symbol	Toot Condition	Value			Lloit
Parameter		Test Condition	Min	Тур	Max	Unit
Radiant Intensity	lv	IF = 20mA	9.6	11	1	mW/sr
Forward Voltage	VF	IF = 20mA	-	1.3	1.8	V
Reverse Leakage Current	lR	VR = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 20mA	1	15	1	Deg
Peak Wavelength	λР	IF = 20mA	870	880	890	nm

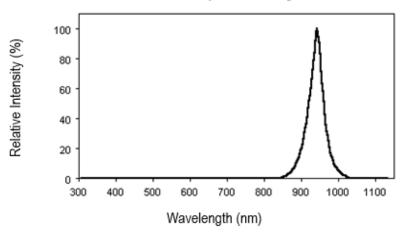
<sup>\*</sup>Tolerance of viewing angle: -10 / +5 deg.



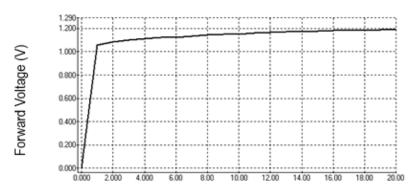


# **OPTICAL CHARACTERISTIC CURVES**

#### Relative Intensity vs. Wavelength

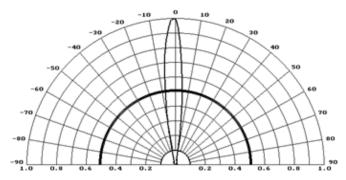


#### Forward Current vs. Forward Voltage



Forward Current (mA)

Directive Characteristics

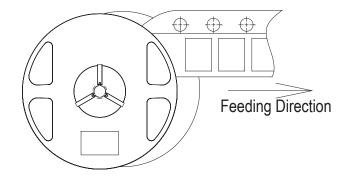


RoHS Compliant

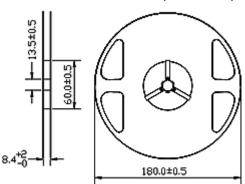


### **PACKAGING SPECIFICATION**

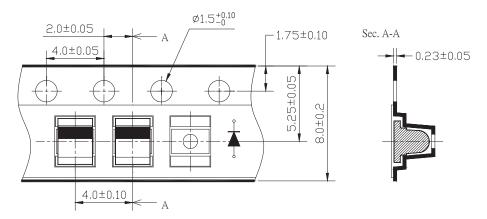
#### **Feeding Direction**



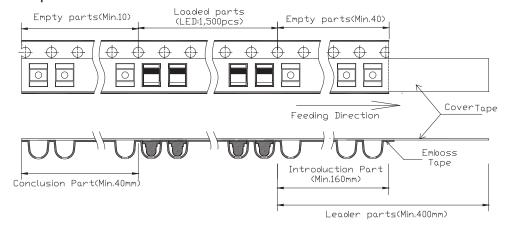
#### Dimensions of Reel (Unit: mm)



#### Dimensions of Tape (Unit: mm)



#### Arrangement of Tape



#### Notes:

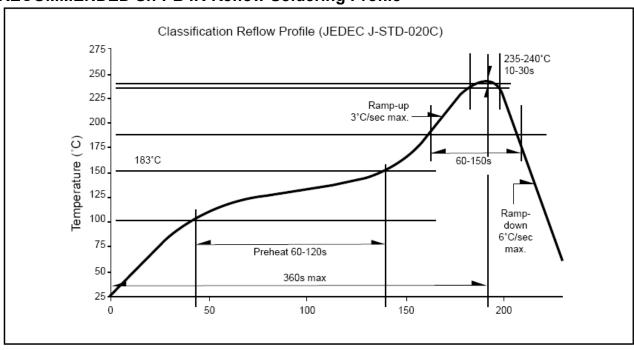
- 1. Empty component pockets are sealed with top cover tape.
- 2. The maximum number of missing lamp is two.
- 3. The cathode is oriented towards the tape sprocket hole.
- 4. 1,500 pcs/Reel





# **SOLDERING CONDITIONS**

### **RECOMMENDED Sn-PB IR-Reflow Soldering Profile**



### **RECOMMENDED Pb-Free Soldering Profile**

