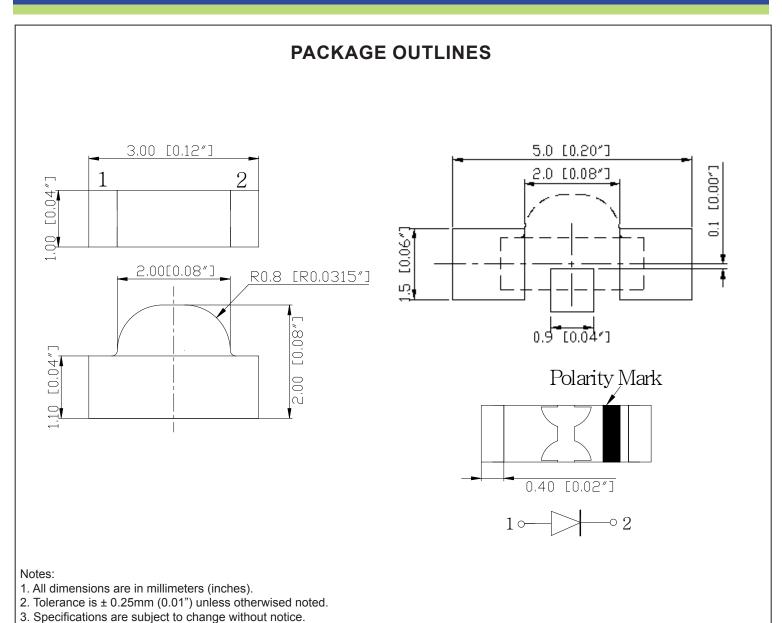


SPECIFICATION CSR123Y2C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle	
CSR123Y2C	InGaAlP	Yellow	Water Clear	150°	





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Forward Current	lF	30	mA	
Reverse Current @ 5V	lR	10	μA	
Power Dissipation	Pd	75	mW	
Operating Temperature Range	Тор	-40~+80	°C	
Storage Temperature Range	Тѕтс	-40~+85	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lFP	125	mA	
Soldering Temperature	TsoL	Max 260°C for 5 sec Max		

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Test Condition	Value			l lait
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 20mA	80	170	ı	mcd
Forward Voltage	VF	IF = 20mA	1	2.0	2.5	V
Reverse Leakage Current	lR	VR = 5V	ı	ı	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 20mA	ı	150	ı	Deg
Peak Wavelength	λР	IF = 20mA	1	595	1	nm
Dominant Wavelength	λD	IF = 20mA	585	ı	595	nm

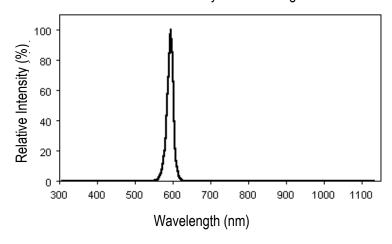
^{*}Tolerance of viewing angle: -10 / +5 deg.



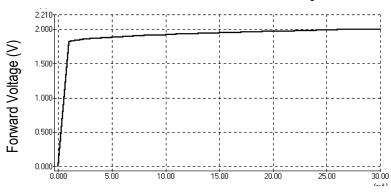


OPTICAL CHARACTERISTIC CURVES

Relative Intensity vs. Wavelength

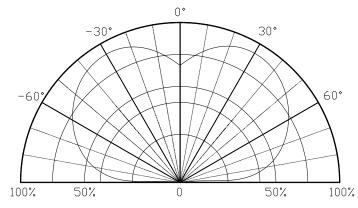


Forward Current vs. Forward Voltage



Directive Characteristics

Forward Current (mA)

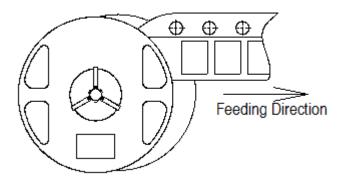


RoHS Compliant

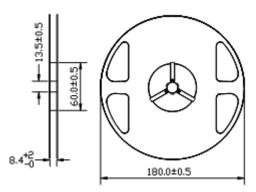


PACKAGING SPECIFICATION

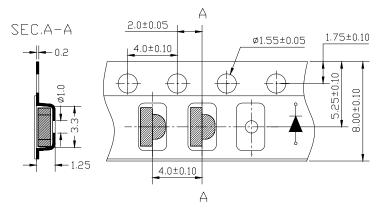
Feeding Direction



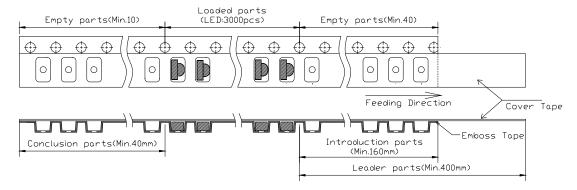
Dimensions of Reel (unit: mm)



Dimensions of Tape (unit: mm)



Arrangement of Tape



Notes:

- 1. Empty component pockets are sealed with top cover tape
- 2. Maximum number of missing lamps is two
- 3. Cathode is oriented towards the tape sprocket hole
- 4. 3,000 pcs/Reel

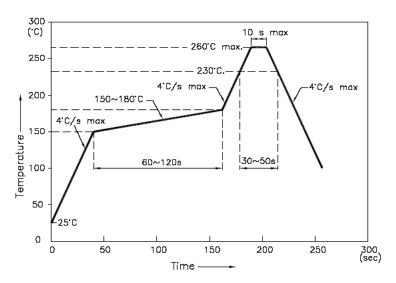




SOLDERING CONDITIONS

REFLOW PROFILE

Reflow Temp/Time



- 1. We Recommend the reflow temperature 245 °C (± 5 °C). The maximum soldering temperature should be limited to 260 °C.
- 2. Don't cause stress to epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.
- Soldering Iron

Basic spec is \leq 5 sec when 260 °C. If temperature is higher, time should be shorter (+10 °C \rightarrow 1sec). Power dissipation of iron should be smaller than 20W and temperature should be controllable. Surface temperature of the device should be under 230 °C.

- Rework
 - 1. Customer must finish rework within 5 sec under 260 °C.
 - 2. The head of iron cannot touch copper foil.
 - 3. Twin-head type is preferred.

