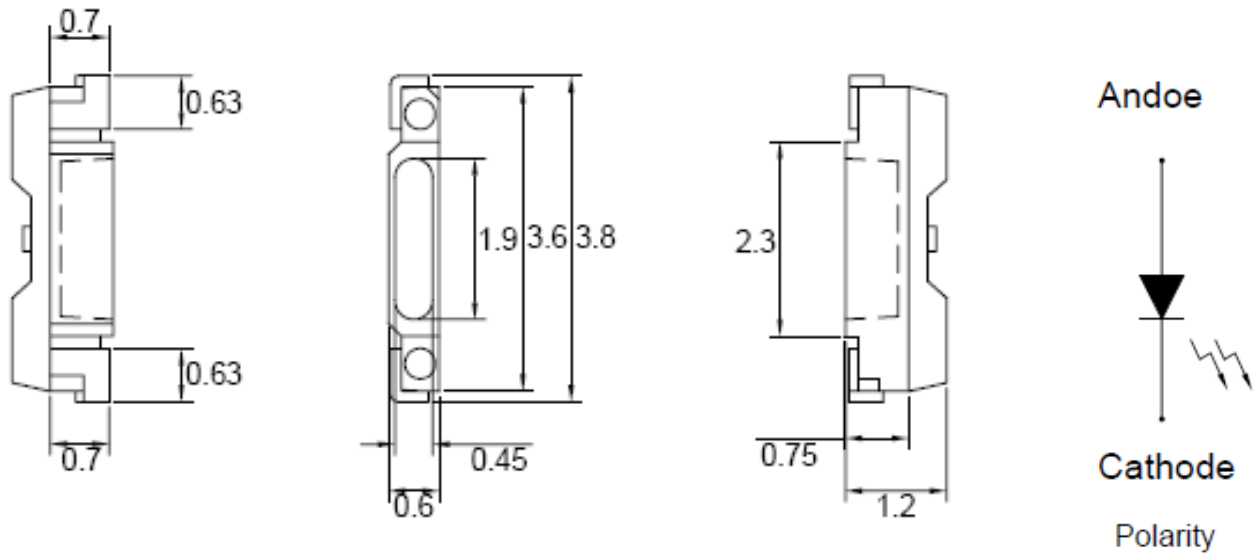
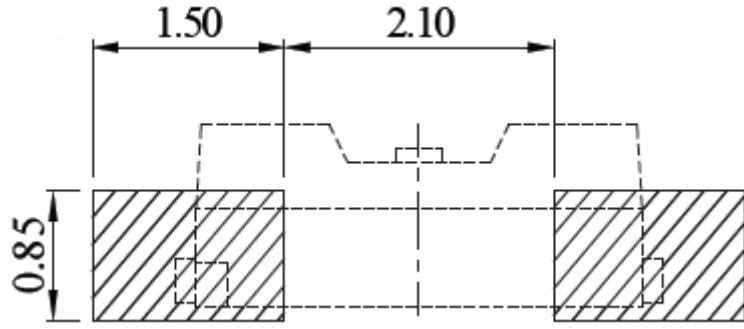


SPECIFICATION **CSPR155R21C**
PACKAGE OUTLINES

RECOMMEND PAD LAYOUT


- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSPR155R21C	InGaAlP	Red	Water Clear	115°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	IF	50	mA
Reverse Current @ 5V	IR	10	μA
Power Dissipation	Pd	130	mW
Operating Temperature Range	TOP	-40~+85	°C
Storage Temperature Range	TSTG	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	IFP	90	mA
Soldering Temperature	TSOL	Max 260°C for 10 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	Iv	IF = 20mA	500	700	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.6	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	115	-	Deg
Dominant Wavelength	λD	IF = 20mA	-	625	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

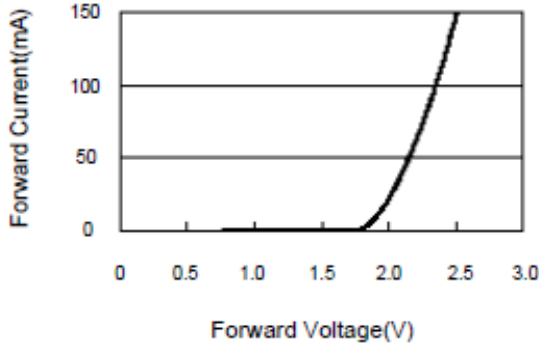


Fig.2 Luminous Intensity vs. Forward Current

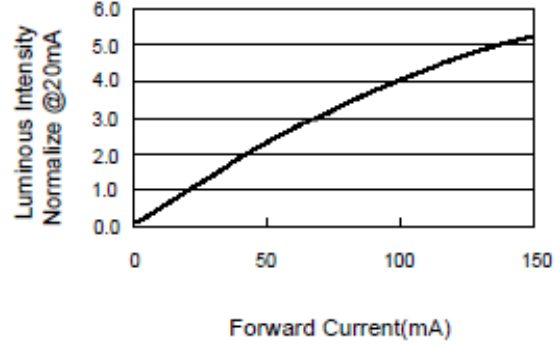


Fig.3 Forward Voltage vs. Temperature

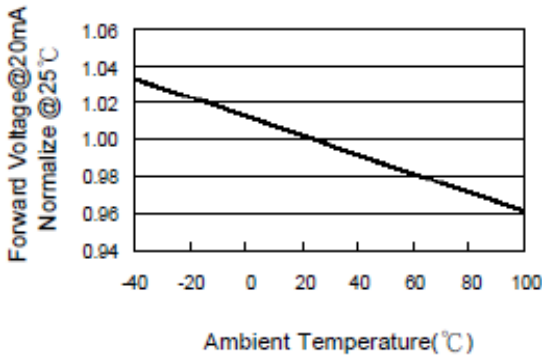


Fig.4 Luminous Intensity vs. Temperature

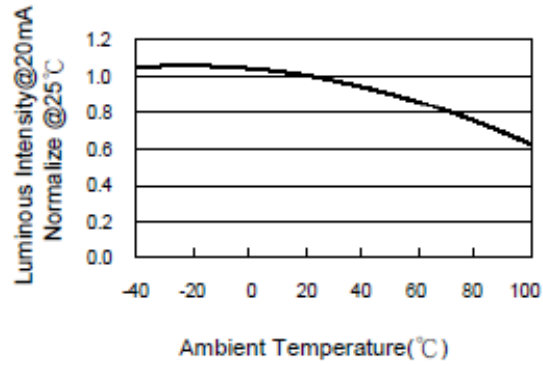


Fig.5 Relative Intensity vs. Wavelength

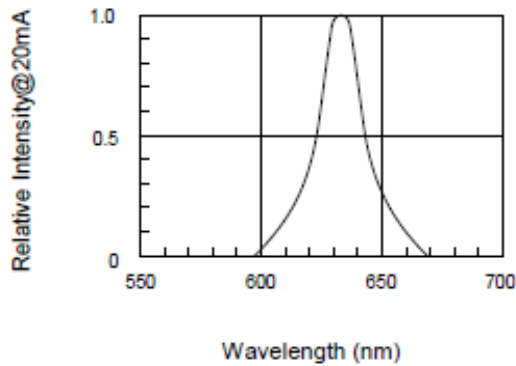
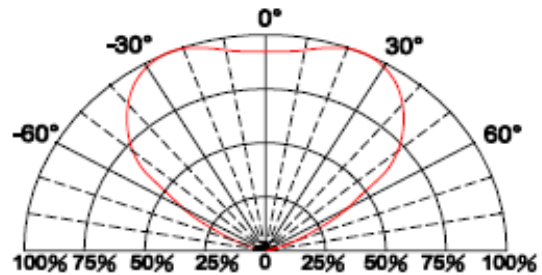


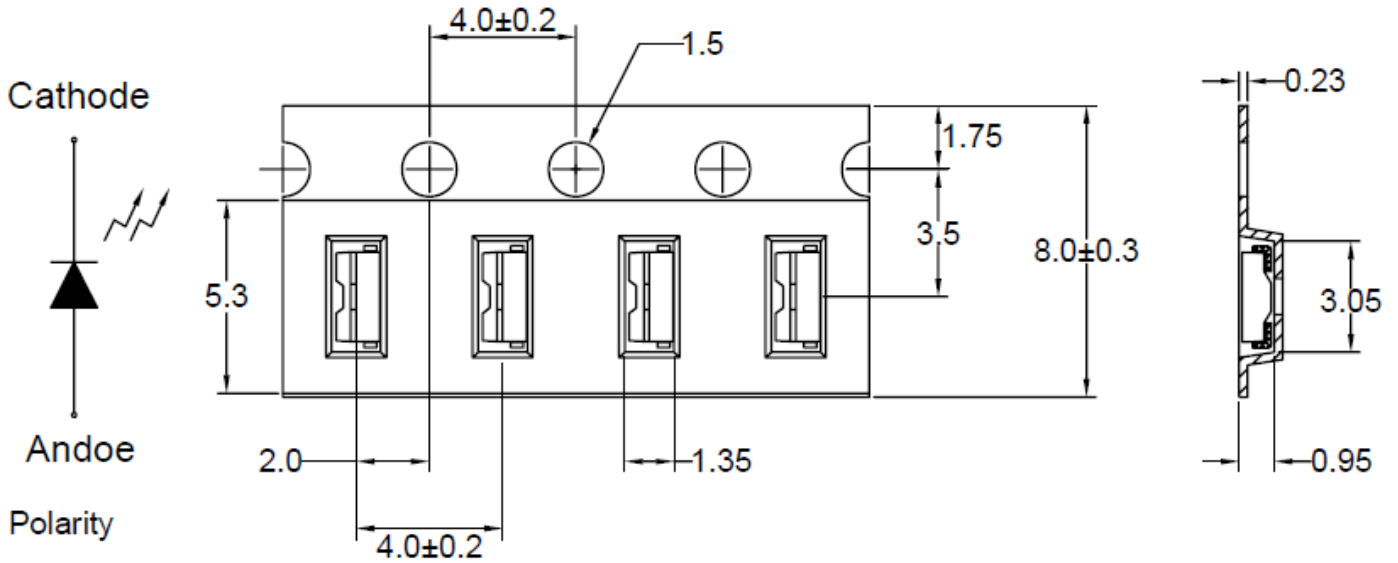
Fig.6 Directive Radiation



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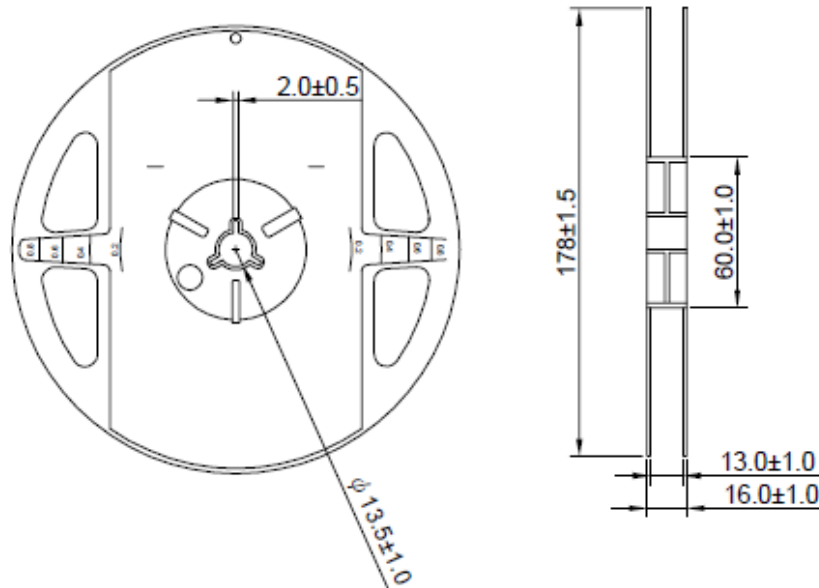
PACKAGING SPECIFICATION

CARRIER TAPE DIMENSION



Note: The tolerances unless mentioned are ± 0.1 mm, Angle ± 0.5 ; Unit=mm

REEL DIMENSIONS



- Notes:
1. 3000 pieces per reel
 2. Tolerance unless mentioned is ± 0.1 mm; Unit=mm

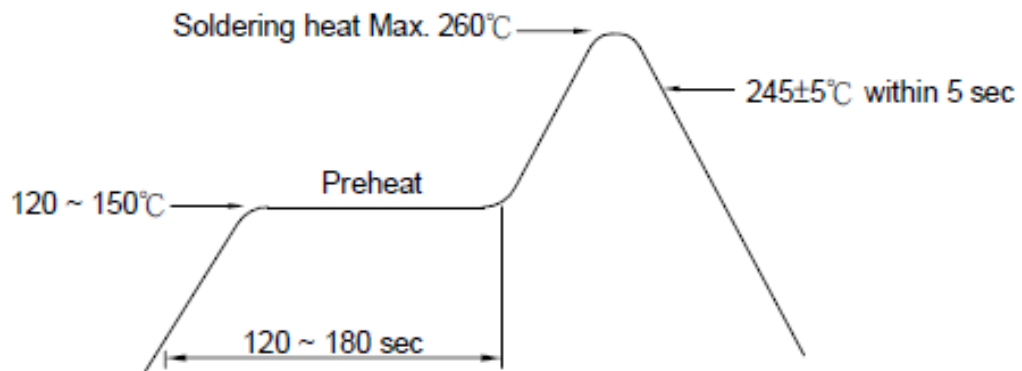


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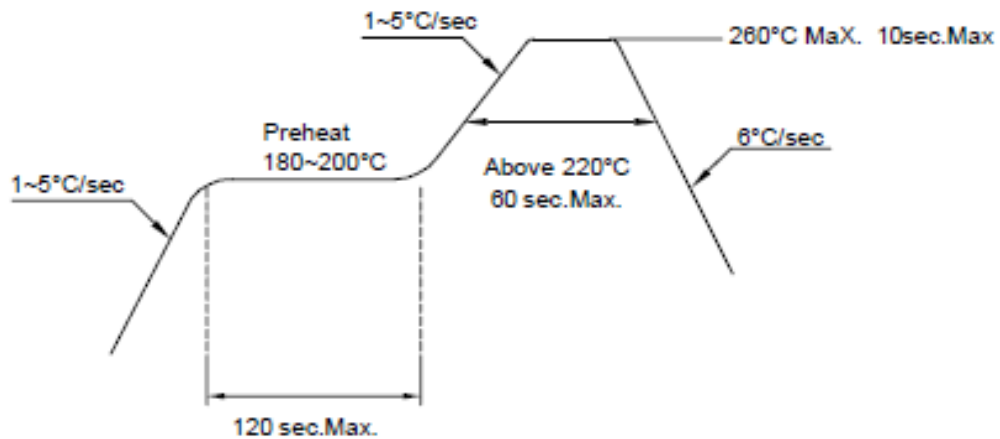
SOLDERING CONDITIONS

PRECAUTIONS FOR USE

1. Hand solder
Basic spec is $\leq 320^{\circ}\text{C}$ 3 sec one time only.
2. Wave solder



3. PB-Free reflow solder



Notes:

1. Reflow soldering should not be done more than two times.
2. When soldering, do not put stress on the LEDs during heating.
3. After soldering, do not warp the circuit board.



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