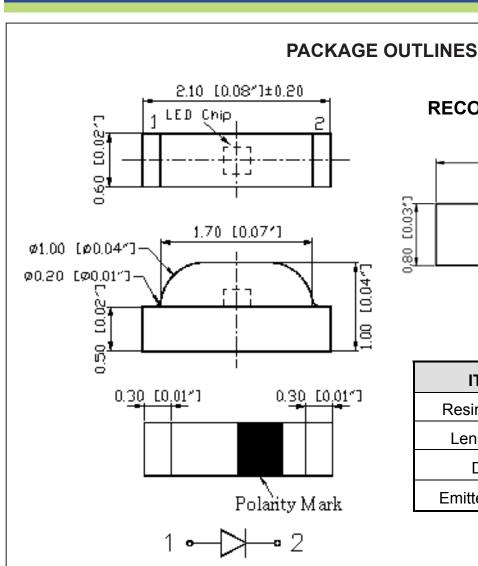
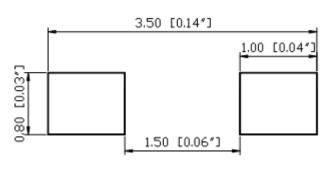


SPECIFICATION CSR84R2C



RECOMMEND PAD LAYOUT



ITEM	MATERIALS		
Resin (mold)	Ероху		
Lens color	Water Transparent		
Dice	AlGaInP/GaAs		
Emitted Color	Red		

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (0.01") unless otherwised noted.
- 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle	
CSR84R2C	InGaAlP	Red	Water Clear	150°	





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

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

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

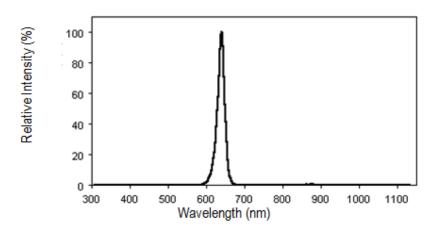
Doromotor	Symbol	Test Condition	Value			l leit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 20mA	50	85	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.5	V
Reverse Leakage Current	lr	V _R = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 20mA	1	150	1	Deg
Peak Wavelength	λp	IF = 20mA	-	640	-	nm
Dominant Wavelength	λ D	IF = 20mA	-	630	-	nm

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

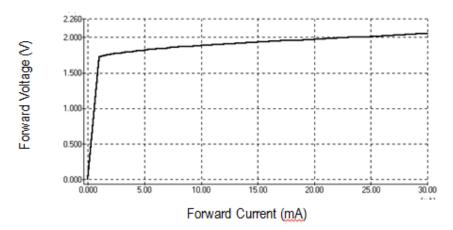


OPTICAL CHARACTERISTIC CURVES

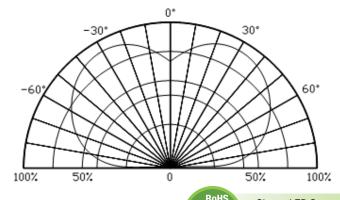
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



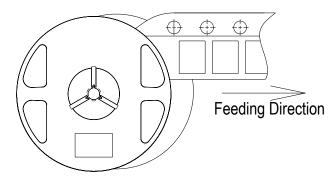
Directive Characteristics



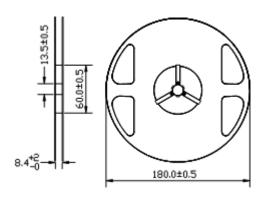


PACKAGING SPECIFICATION

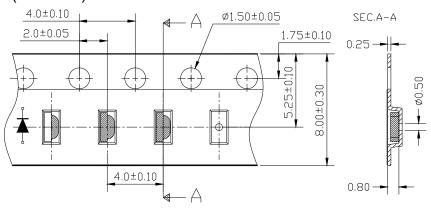
Feeding Direction



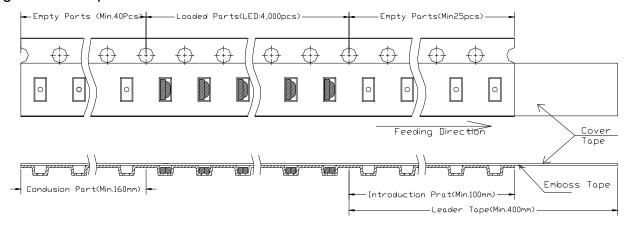
Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



Arrangement of Tape



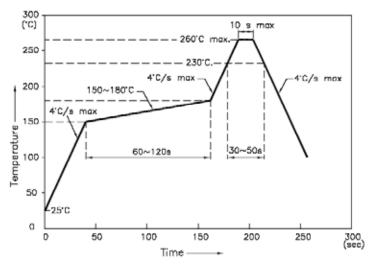
- Empty component pockets are sealed with top cover tape
- The maximum number of missing lamps is two
- The cathode is oriented towards the tape sprocket hole
- 4,000 pcs/Reel





SOLDERING CONDITIONS

REFLOW PROFILE



- 1. We recommend the reflow temperature 245°C (±5°C). The maximum soldering temperature should be limited to 260°C.
- 2. Do not cause stress to the epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process should be 2 times or less.

Soldering Iron

Basic spec is ≤5sec when 260°C. If temperature is higher, time should be shorter (+10°C→-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.

