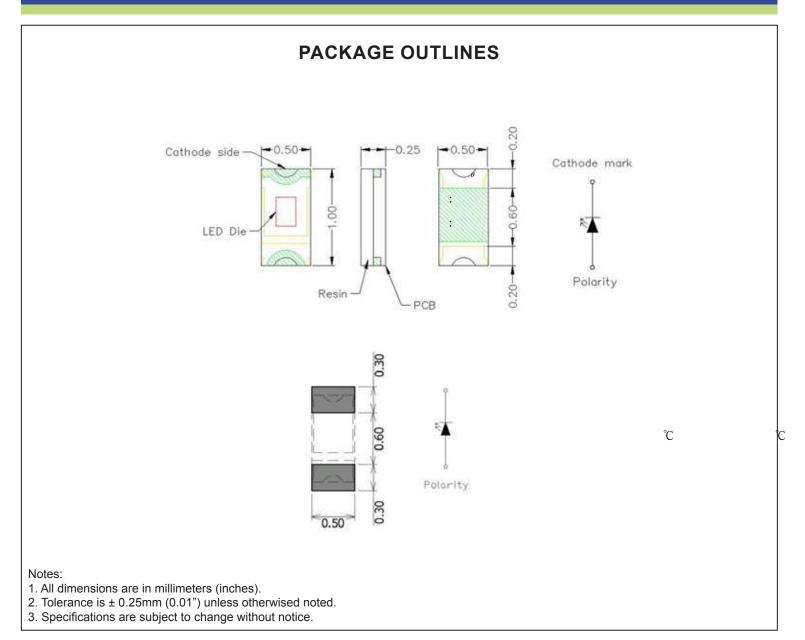


SPECIFICATION CS42ER2C



Part Number	°C Chip Material	Color of Emission	Lens Type	Viewing Angle
CS42ER2C	InGaAIP	Red	Water Clear	130°





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	lF	20	mA
Reverse Current @ 5V	lR	10	μΑ
Power Dissipation	Pd	50	mW
Operating Temperature Range	Тор	-40~+85	°C
Storage Temperature Range	Тѕтс	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	lFP	30	mA
Soldering Temperature	TsoL	Max 260°C for 10 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

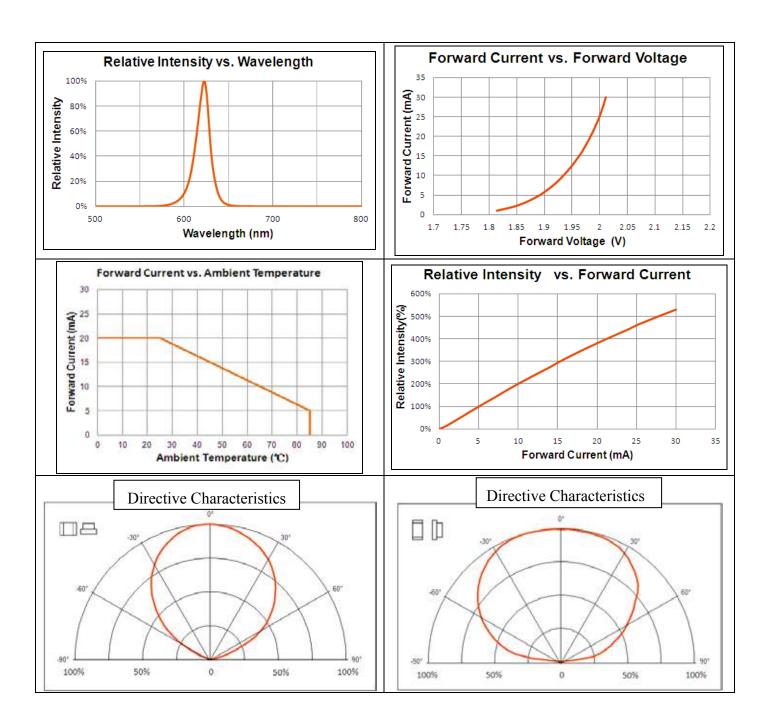
Darameter	Symbol	Test Condition	Value			Lloit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 5mA	-	25	-	mcd
Forward Voltage	VF	IF = 5mA	-	2.0	2.4	V
Reverse Leakage Current	lR	VR = 5V	-	10	-	μΑ
Viewing Angle at 50% Iv	201/2	IF = 5mA	-	130	-	Deg
Peak Wavelength	λР	IF = 5mA	-	622	-	nm
Dominant Wavelength	λD	IF = 5mA	-	615	-	nm

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





OPTICAL CHARACTERISTIC CURVES

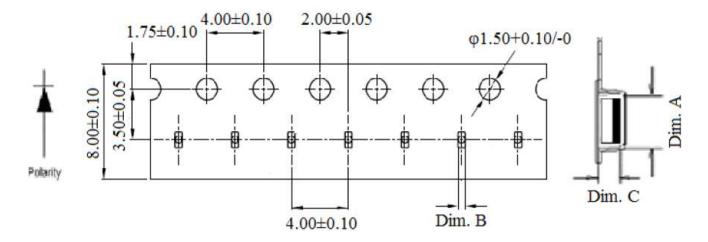






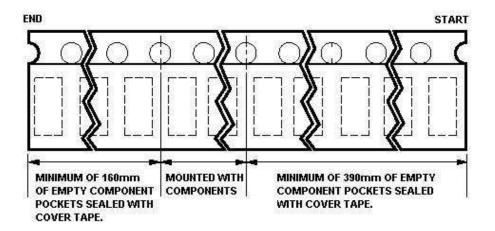
PACKAGING SPECIFICATION

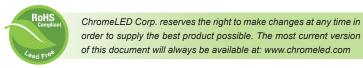
Tape Dimension



Dim. A	Dim. B	Dim. C	Q'ty/Reel
1.11±0.03	0.60±0.03	0.38±0.03	3K

Unit: mm







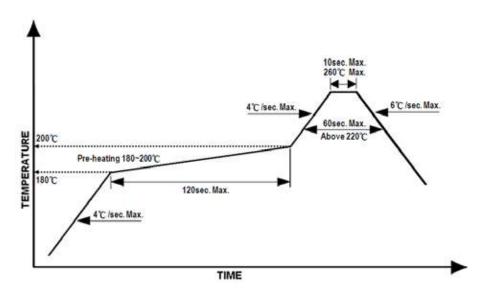
SOLDERING CONDITIONS

Reflow Soldering

Recommend soldering paste specifications:

- 1. Operating temp.: Above 220°C ,60 sec.
- 2. Peak temp.:260°C Max.,10sec Max.
- 3. Reflow soldering should not be done more than two times.
- Never attempt next process until the component is cooled down to room temperature after reflow.
- 5. The recommended reflow soldering profile (measured on the surface of the LED terminal) is as following:

Lead-free Solder Profile



Reworking

- Rework should be completed within 5 seconds under 260°C.
- The iron tip must not come in contact with the copper foil.
- Twin-head type is preferred.

Cleaning

Following are cleaning procedures after soldering:

- An alcohol-based solvent such as isopropyl alcohol (IPA) is recommended.
- Temperature x Time should be 50°C x 30sec. or <30°C x 3min
- Ultrasonic cleaning: < 15W/ bath; bath volume ≤ 1liter
- Curing: 100 °C max, <3min

