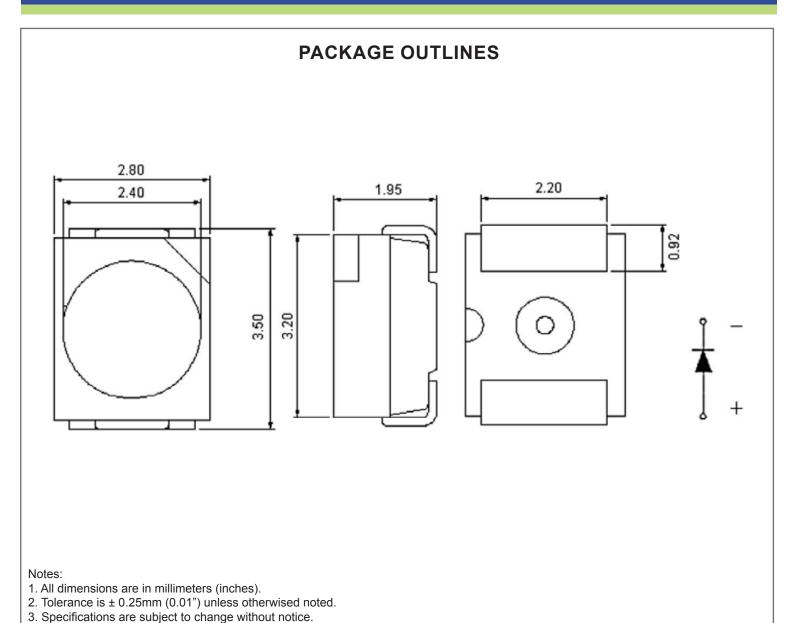


SPECIFICATION CSP1311CW4C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSP1311CW4C	InGaN	White	Water Clear	120°





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	lF	30	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	Тор	-40~+85	°C
Storage Temperature Range	Тѕтс	-40~+100	°C
Peak Pulsing Current (1/8 duty f = 1KHz)	lFP	100 mA	
Soldering Temperature	TsoL	Max 260°C for 10 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Cumbal	Symbol Test Condition		Value		
Parameter	Symbol	rest Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 20mA	2000	2500	-	Mcd
Forward Voltage	VF	IF = 20mA	-	3.2	3.5	V
Viewing Angle at 50% Iv	201/2	IF = 20mA	-	120	-	Deg
Chromaticity Coordinate	Х	IF = 20mA	0.30	1	0.33	-
Chromaticity Coordinate	Y	IF = 20mA	0.31	ı	0.34	-
Luminous Flux	ØV	IF = 20mA	-	7.5	-	lm

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





OPTICAL CHARACTERISTIC CURVES

Figure 1. Forward Current VS. Forward Voltage

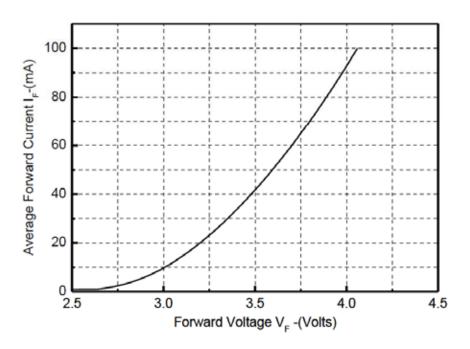
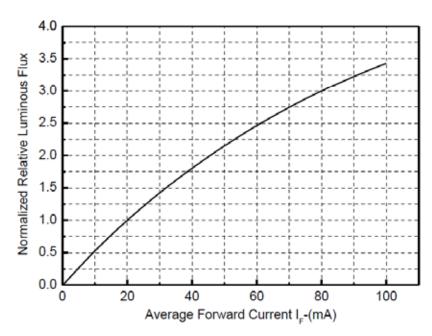


Figure 2. Relative Luminous Flux VS. Forward Current







OPTICAL CHARACTERISTIC CURVES

Figure 3. Maximum Driving Forward DC Current VS. Ambient Temperature

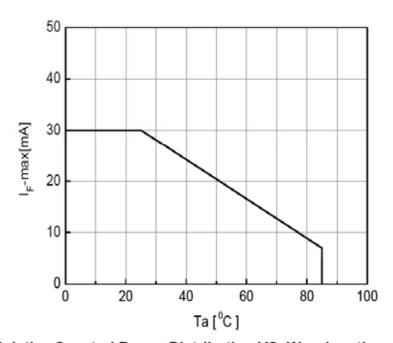
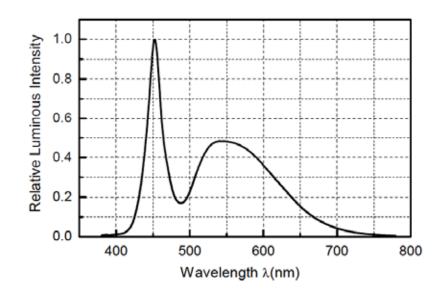


Figure 4. Relative Spectral Power Distribution VS. Wavelength

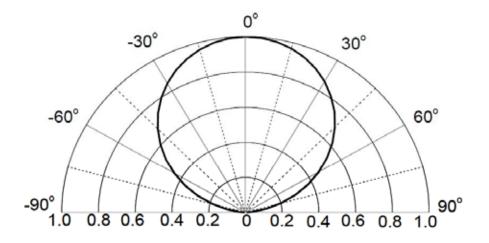






OPTICAL CHARACTERISTIC CURVES

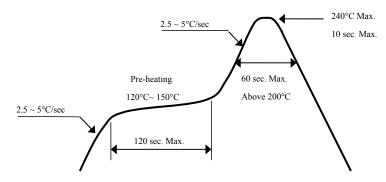
Figure 5. Relative Luminosity VS. Radiation Angle



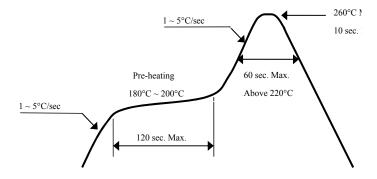


SOLDERING CONDITIONS

Lead Solder



Lead-free Solder



Hand Soldering

Soldering temperature	350°C	0 "
Soldering time	3 sec	One time only

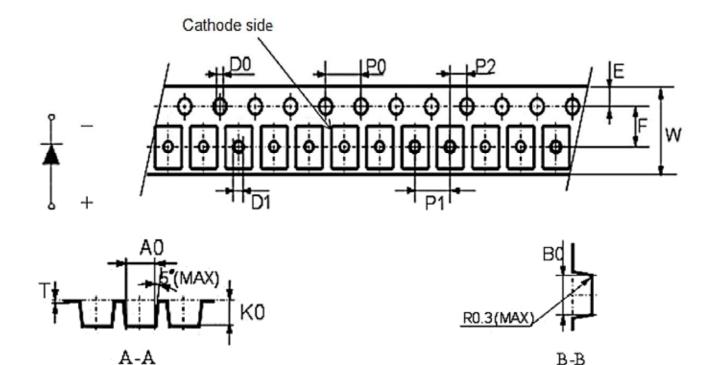
Reflow Soldering

Reflow Soldering				
	Lead Solder	Lead-free Solder		
Pre-heat	120~150°C	180~200°C		
Pre-heat time	120 sec. Max.	120sec.Max.		
Peak	240°C Max	260°C Max		
Temperature		10sec.Max.refer to		
Soldering time	10sec. Max. refer to	Temperature-profile B		
Condition	Temperature-profile A	(N ₂ reflow is recommended)		





PACKAGING SPECIFICATION



Unit: mm

symbol	A0	В0	K0°	P0	P1	P2
Spec	3.15±0.10	3.80±0.10	2.10±0.10	4.00±0.10	4.0±0.10	2.00±0.10
symbol	8	Т	Έ	F	DO	D1
Spec	8.00±0.1	0.235±0.05	1.75±0.10	3.5±0.10	1.50+0.10	1.00+8.18

Note:

- 1. All dimensions are in mm
- 2. Tolerance is ±0.2mm unless otherwise noted
- 3. 2500 pcs/Reel

