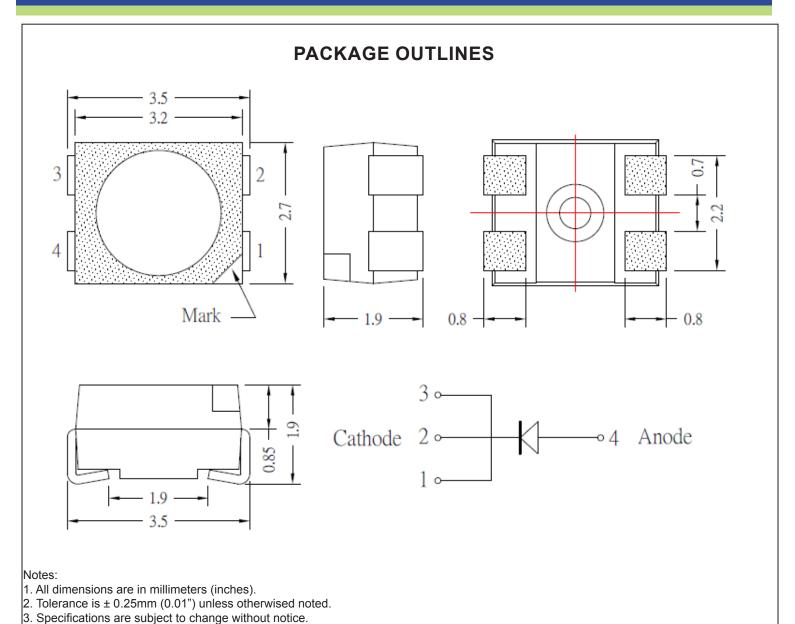


SPECIFICATION CSP1311Y3C-4



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSP1311Y3C-4	InGaAlP	Yellow	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Forward Current	lF	50	mA	
Reverse Current @ 5V	lR	10	μΑ	
Power Dissipation	Pd	125	mW	
Operating Temperature Range	Тор	-30~+100	°C	
Storage Temperature Range	Тѕтс	-40~+100	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lFP	100	mA	
Soldering Temperature	TsoL	Max 260°C for 10 sec Max		

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Test Condition	Value			Linit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 50mA	900	1680	1	mcd
Forward Voltage	VF	IF = 50mA	1	2.5	3.0	V
Reverse Leakage Current	lR	VR = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 50mA	ı	120	ı	Deg
Peak Wavelength	λР	IF = 50mA	-	593	ı	nm
Dominant Wavelength	λD	IF = 50mA	585	590	595	nm

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

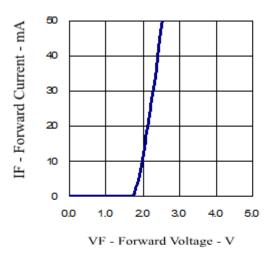


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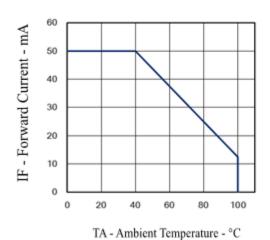


OPTICAL CHARACTERISTIC CURVES

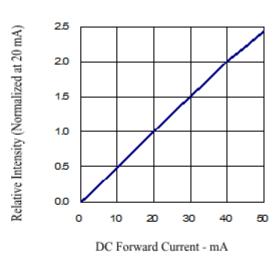
Forward Current vs. Forward Voltage



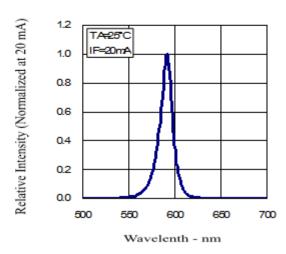
Forward Current vs. Ambient Temperature



Relative Intensity vs. Forward Current



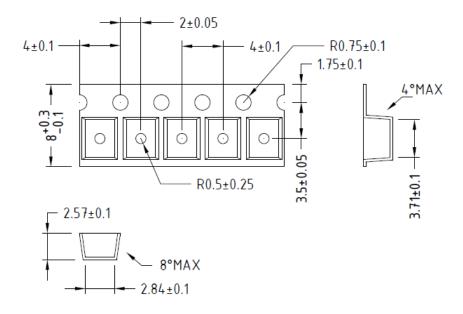
Relative Intensity vs. Wavelength



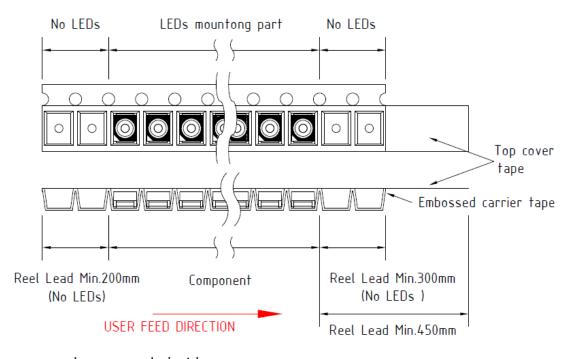


PACKAGING SPECIFICATION

TAPE DIMENSION



TAPE LEADER AND TRAILER DIMENSION



Notes:

- 1. Empty component pockets are sealed with top cover tape
- 2. The maximum number of missing lamps is two.
- 3. 2000 pcs/reel

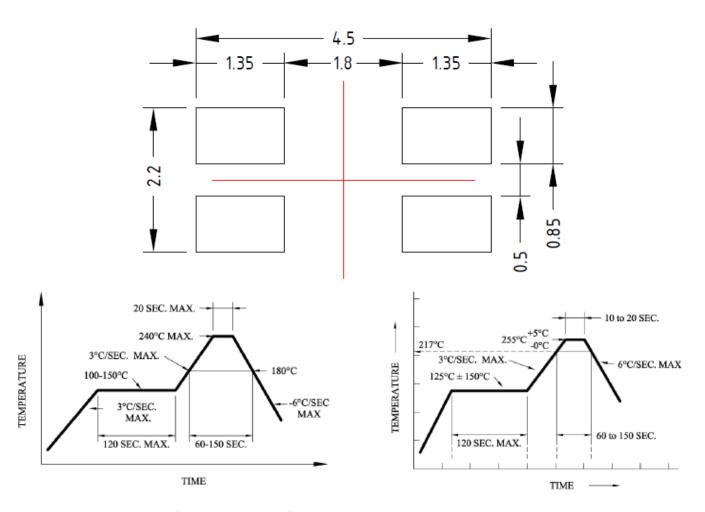


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SOLDERING CONDITIONS

RECOMMENDED SOLDERING PAD PATTERN



Recommended reflow soldering profile

Recommended Pb-free reflow soldering profile.

- Repairing should not be done after the LEDs have been soldered. When repairing is
 unavoidable, a double-head soldering iron should be used. It should be confirmed
 beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.
- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on the LEDs during heating.
- After soldering, do not warp the circuit board

