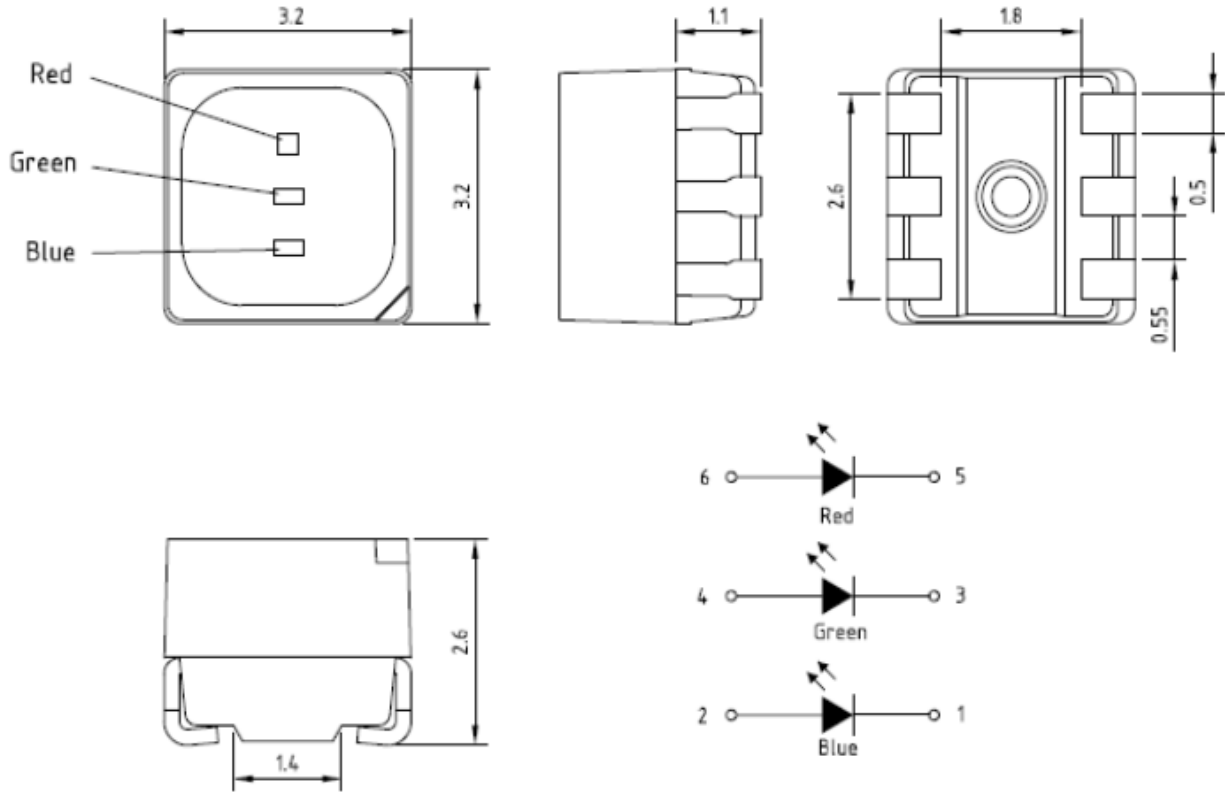


SPECIFICATION **CSPT1313R4GT4B4C-6**
PACKAGE OUTLINES


- 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
CSPT1313R4GT4B4C-6	InGaAlP	Red	Water Clear	115°
	InGaN	True Green	Water Clear	115°
	InGaN	Blue	Water Clear	115°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Blue/ Green	Red	
Forward Current	IF	30	50	mA
Reverse Voltage	VR	5	5	V
Power Dissipation	Pd	108	120	mW
Operating Temperature Range	TOP	-30~+85		°C
Storage Temperature Range	TSTG	-40~+100		°C
Peak Pulsing Current (tp ≤ 10 μs, duty cycle = 0.005)	IFP	100		mA

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	Iv	IF = 20mA	Red	630	1240	-	mcd
			Green	1280	2500	-	
			Blue	320	630	-	
Forward Voltage	VF	IF = 20mA	Red	-	2.2	2.4	V
			Green	-	3.2	3.6	
			Blue	-	3.2	3.6	
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	-	120	-	Deg
Dominant Wavelength	λD	IF = 20mA	Red	619	-	624	nm
			Green	520	-	535	
			Blue	465	-	475	

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

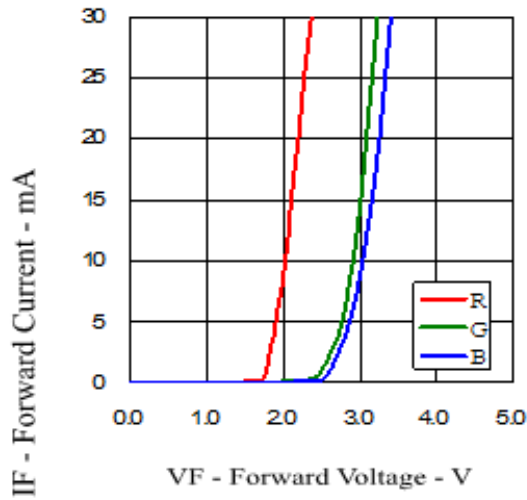
*Tolerance of forward voltage is -/+ 0.05V

*Tolerance of luminous intensity -/+ 1nm

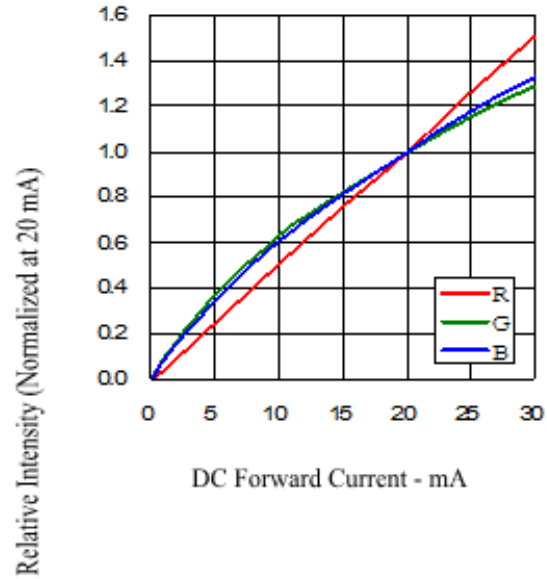

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TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES

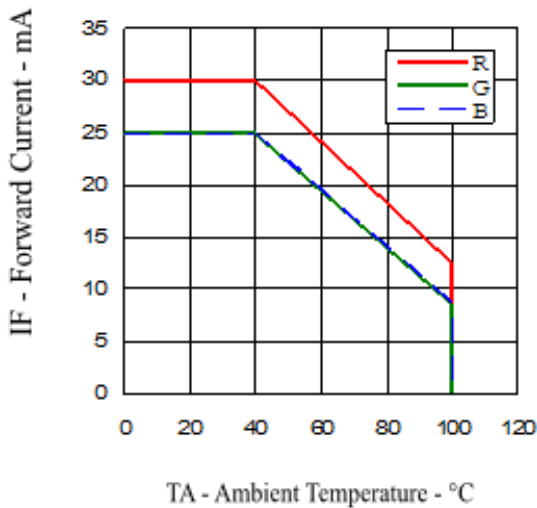
Forward Current vs. Forward Voltage



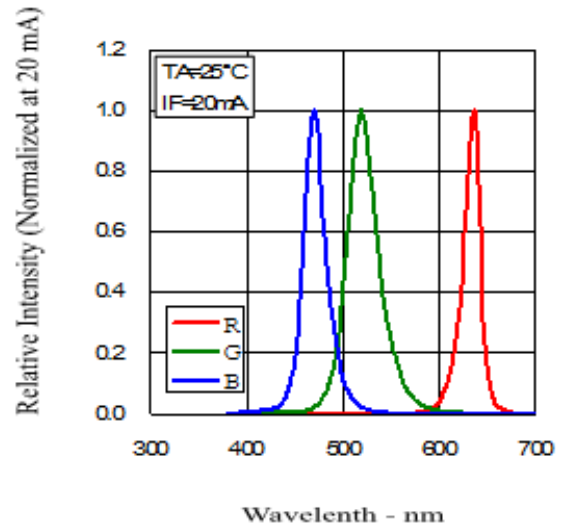
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temperature

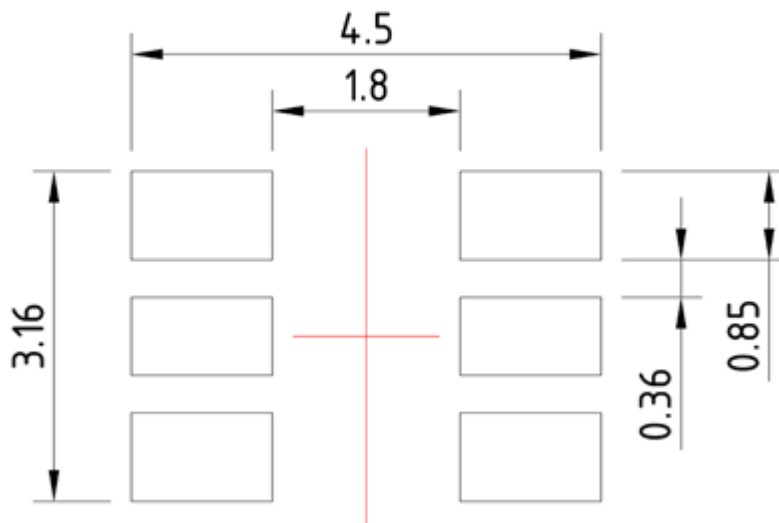
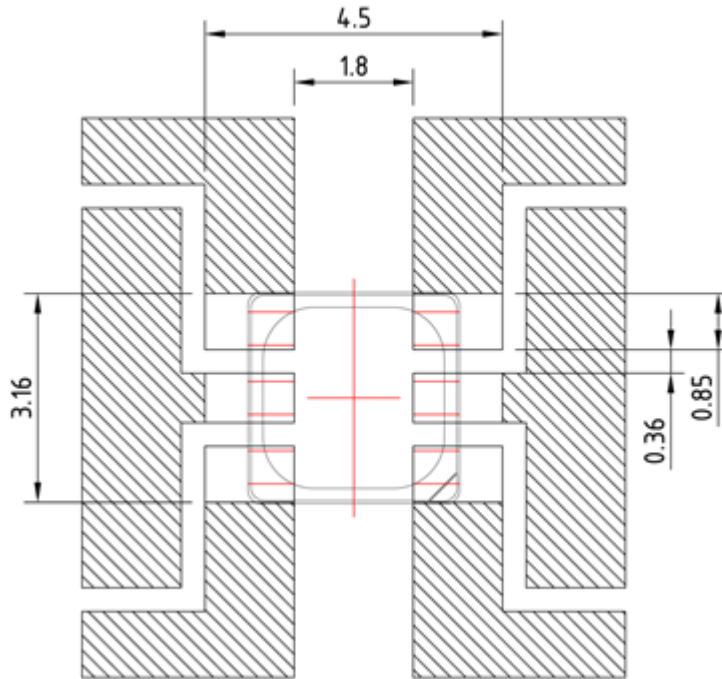


Relative Intensity vs. Wavelength

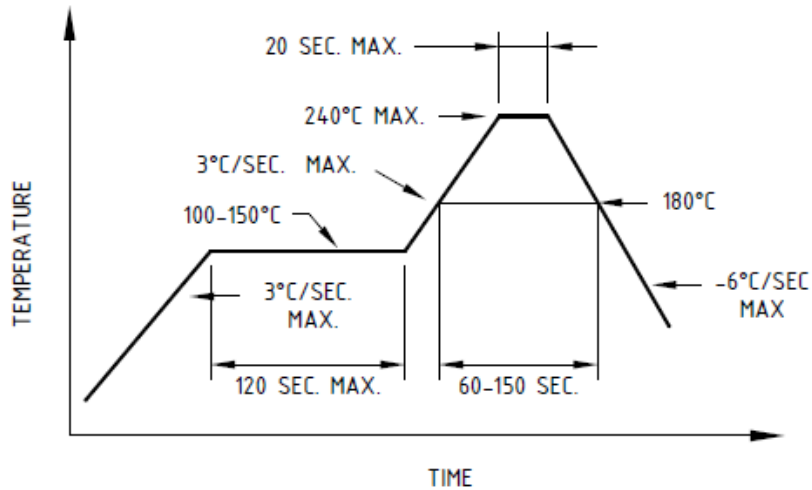
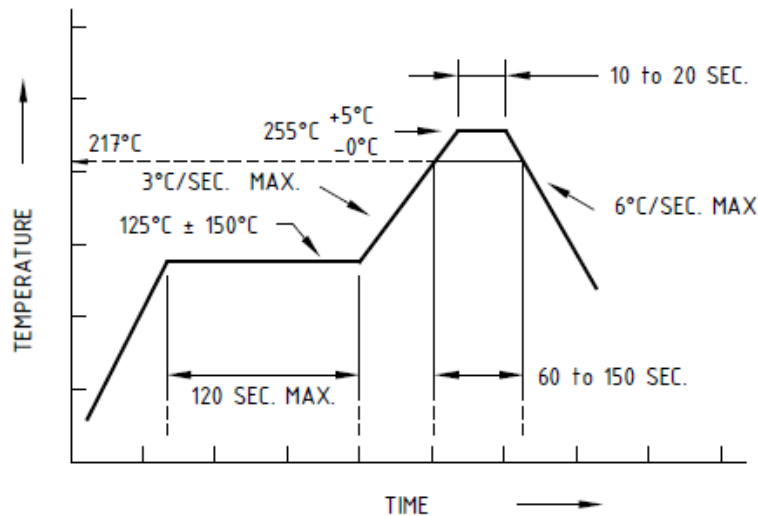


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RECOMMENDED SOLDERING PATTERN



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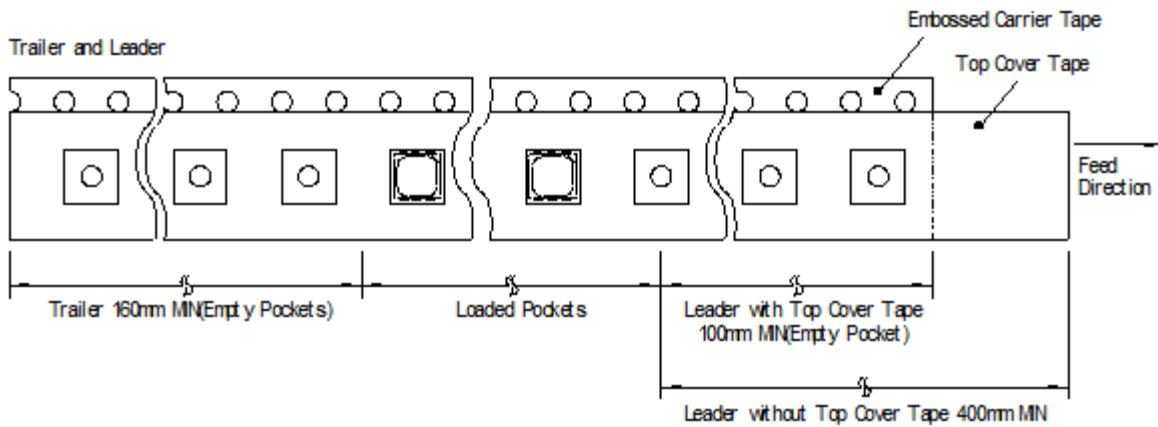
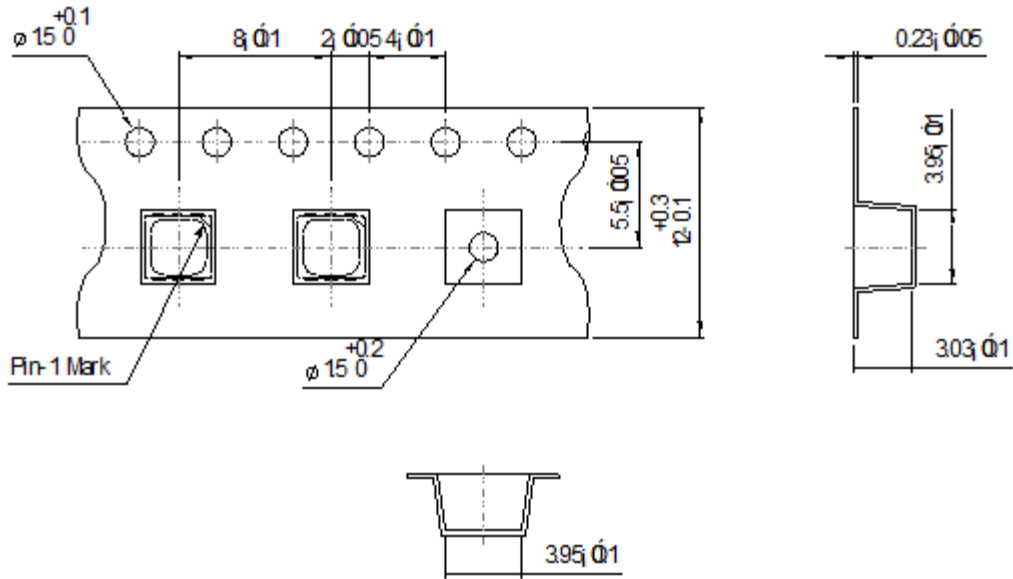
SOLDERING CONDITIONS

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.



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REEL PACKAGING



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