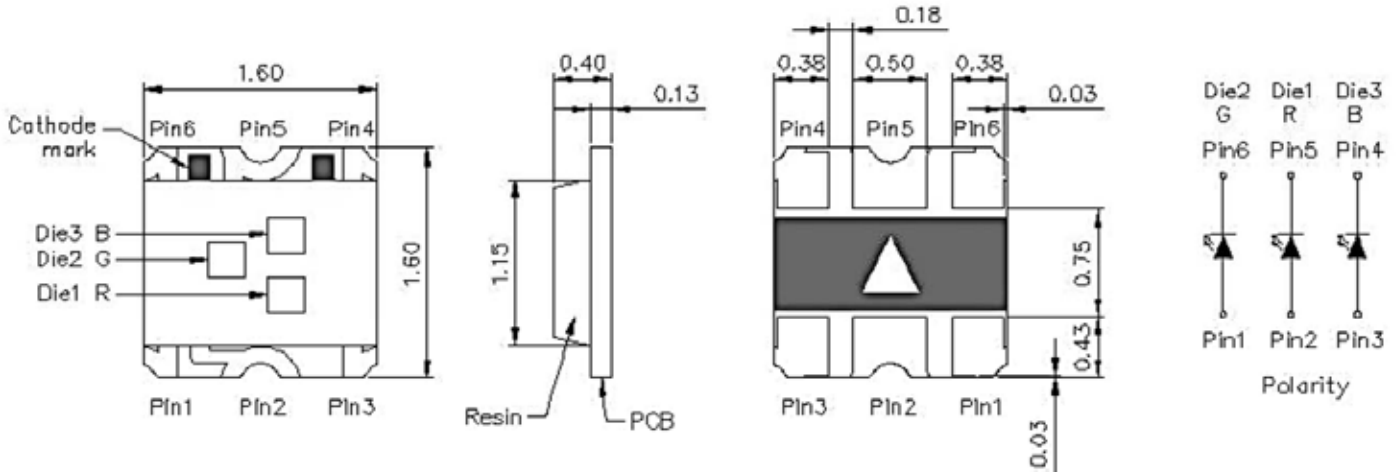
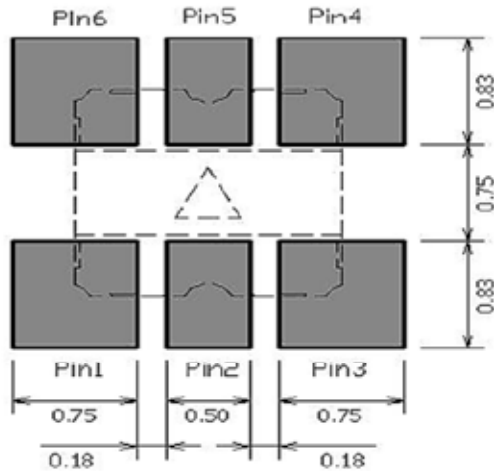


SPECIFICATION CST66R2GT2B2C

PACKAGE OUTLINES



SOLDERING PATTERN



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
CST66R2GT2B2C	InGaAlP	Red	Water Clear	120°
	InGaN	True Green	Water Clear	120°
	InGaN	Blue	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Blue/ Green	Red	
Forward Current	I _F	20	20	mA
Reverse Voltage	V _R	5	5	V
Power Dissipation	P _d	78	48	mW
Operating Temperature Range	T _{OP}	-40~+85		°C
Storage Temperature Range	T _{STG}	-40~+100		°C
Peak Pulsing Current (tp ≤ 10 μs, duty cycle = 0.005)	I _{FP}	30		mA

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I _v	I _F = 20mA	Red	72	112	-	mcd
			Green	112	180	-	
			Blue	45	72	-	
Forward Voltage	V _F	I _F = 20mA	Red	-	2.0	2.4	V
			Green	-	3.3	3.9	
			Blue	-	3.3	3.9	
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	-	120	-	Deg
Dominant Wavelength	λ _D	I _F = 20mA	Red	615	624	635	nm
			Green	520	525	540	
			Blue	460	470	480	

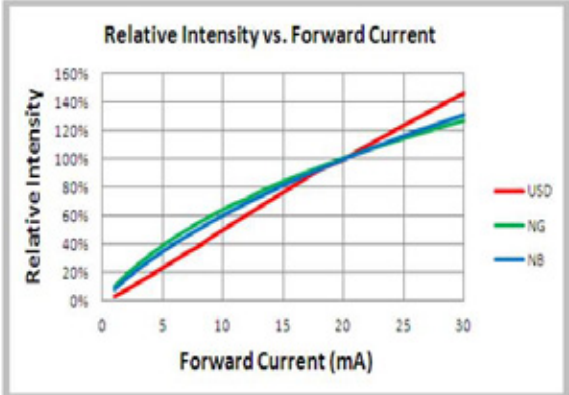
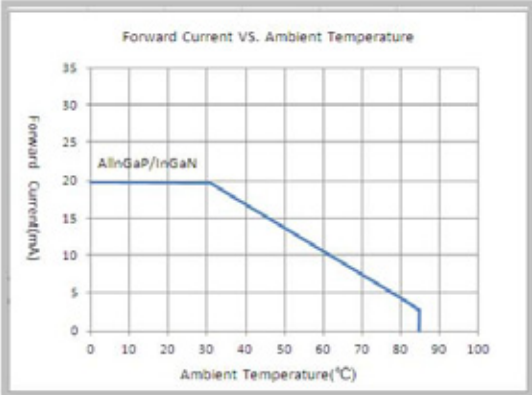
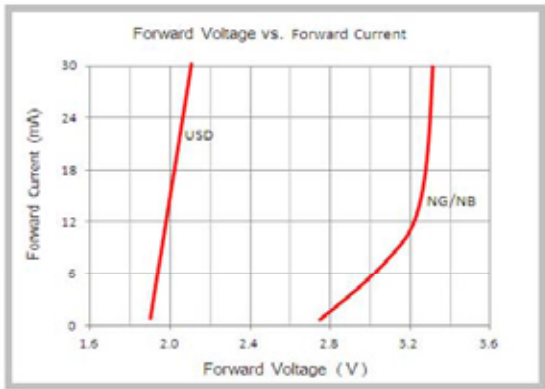
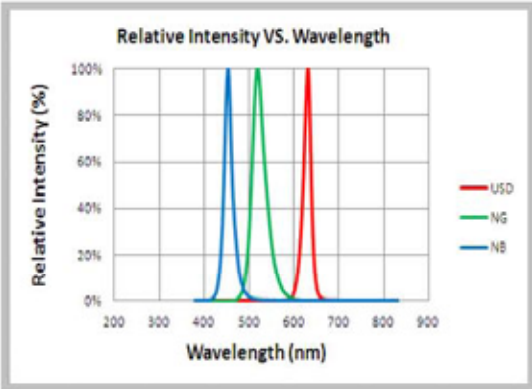
*Tolerance of viewing angle: -10 / +5 deg.

*Tolerance of forward voltage is -/+ 0.05V

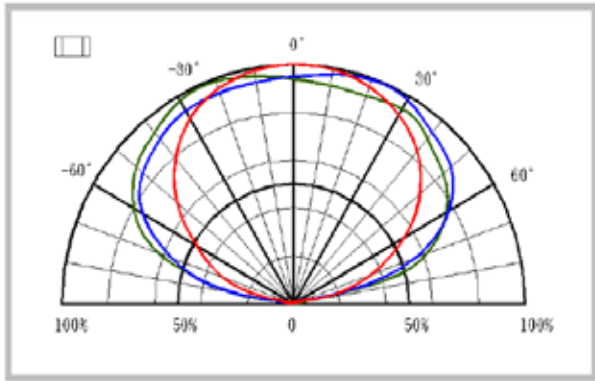
*Tolerance of luminous intensity -/+ 1nm


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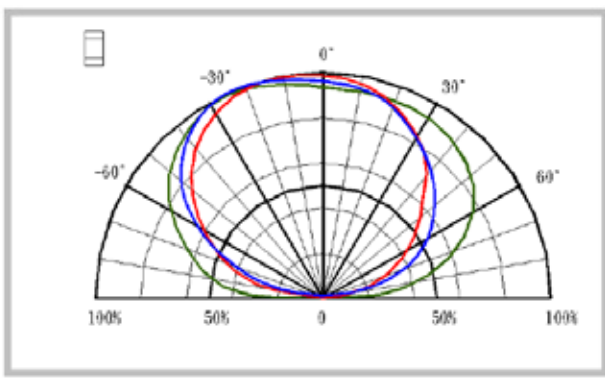
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



Directive Characteristics



Directive Characteristics



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SOLDERING CONDITIONS

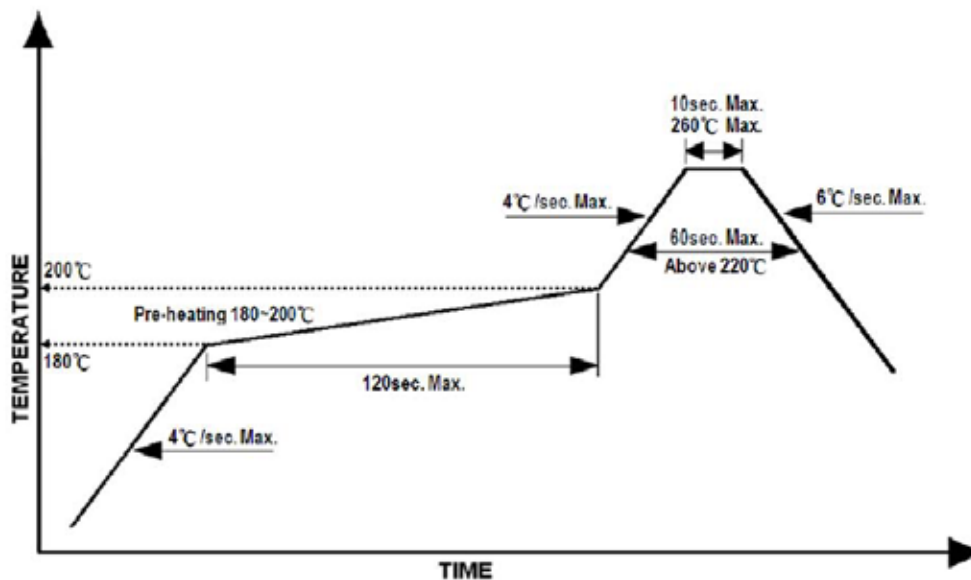
SOLDERING PROFILE

Reflow Soldering

Recommended soldering paste specifications:

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

Lead-Free Solder Profile



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

Cleaning

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

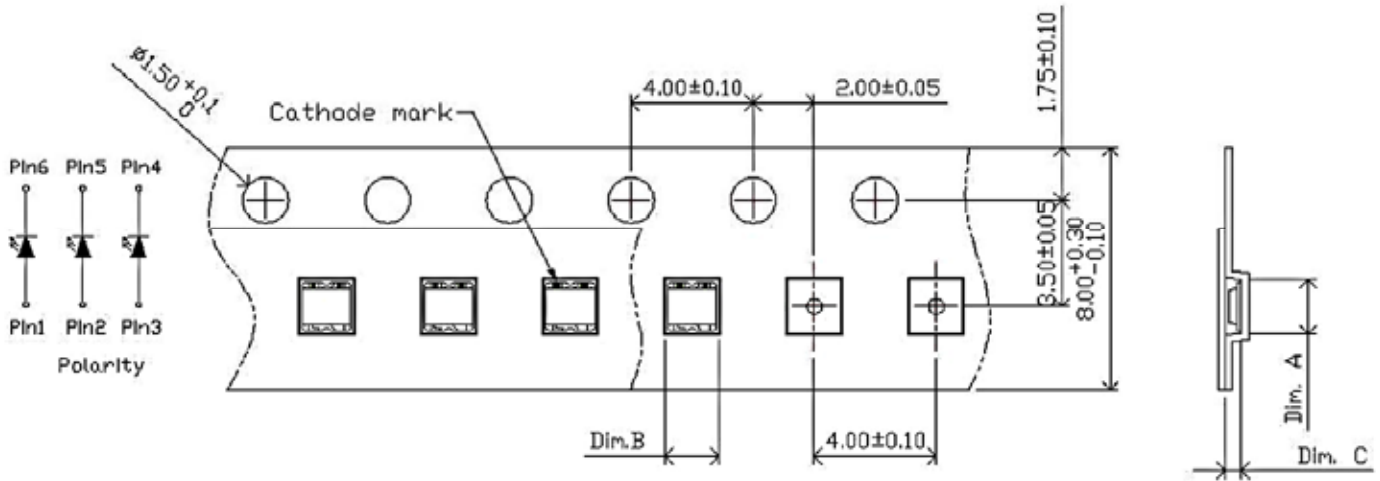


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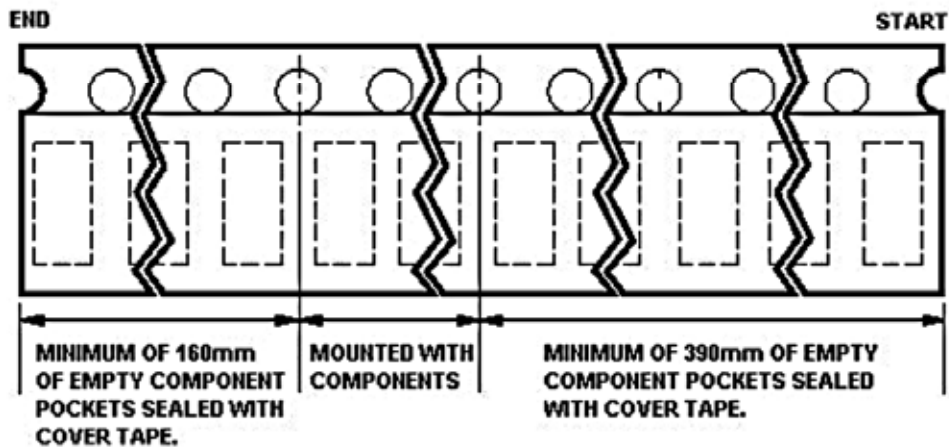
REEL PACKAGING

PACKAGING SPECIFICATIONS

Tape Dimension



Dim. A	Dim. B	Dim. C	Q'ty/Reel
1.80±0.10	1.70±0.10	0.65±0.10	2K



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