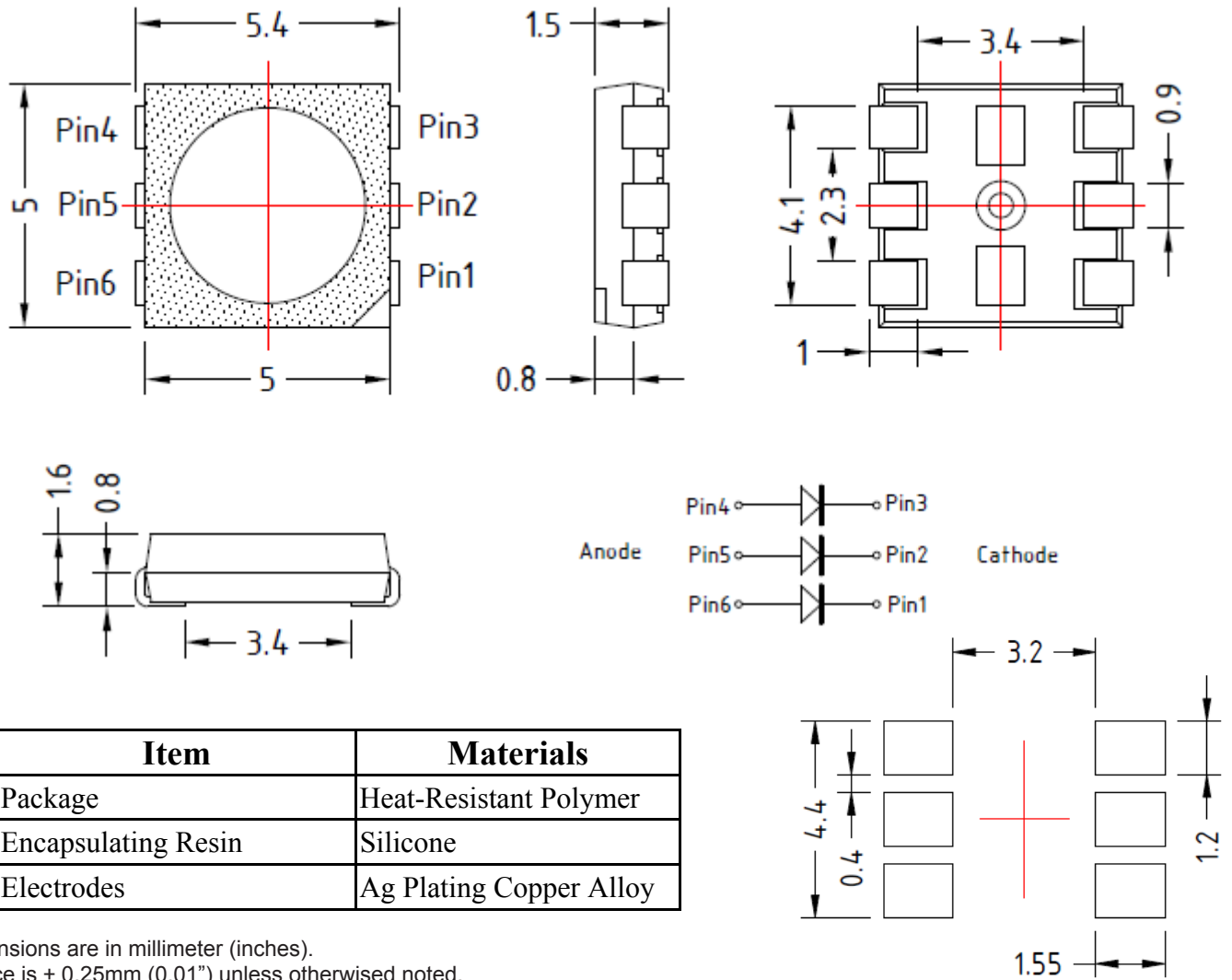


SPECIFICATIONS **CSH22R3C**
PACKAGE OUTLINES


Item	Materials
Package	Heat-Resistant Polymer
Encapsulating Resin	Silicone
Electrodes	Ag Plating Copper Alloy

- Notes:
1. All dimensions are in millimeter (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
CSH22R3C	InGaAlP	Red	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	210	mA
Power Dissipation	P _d	630	mW
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	300	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{OP}	-30~+100	°C
Storage Temperature Range	T _{STG}	-40~+100	°C
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Reverse Current	I _R	V _R = 5V	-	-	10	μA
Peak Wavelength	λ _P	I _F = 60mA	-	635	-	nm
Dominant Wavelength	λ _D	I _F = 60mA	-	625	-	nm
Forward Voltage (per chip)	V _F	I _F = 60mA	-	2.5	3.0	V
Luminous Intensity (per chip)	I _v	I _F = 60mA	1500	2700	-	mcd
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 60mA	-	120	-	Deg

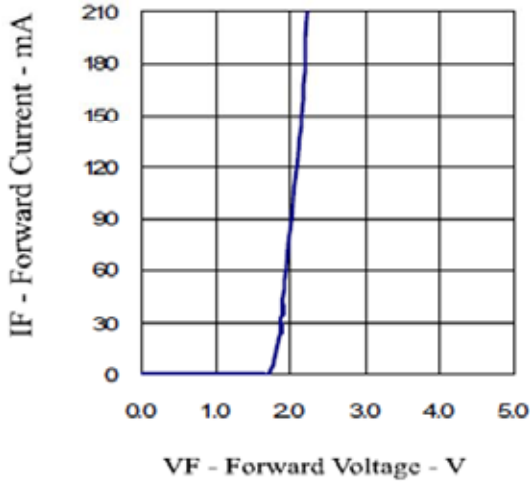
*Tolerance of viewing angle: -10 / +5 deg.



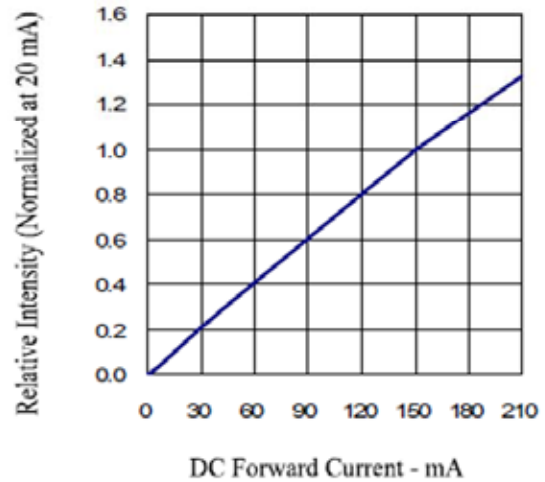
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OPTICAL CHARACTERISTIC CURVES

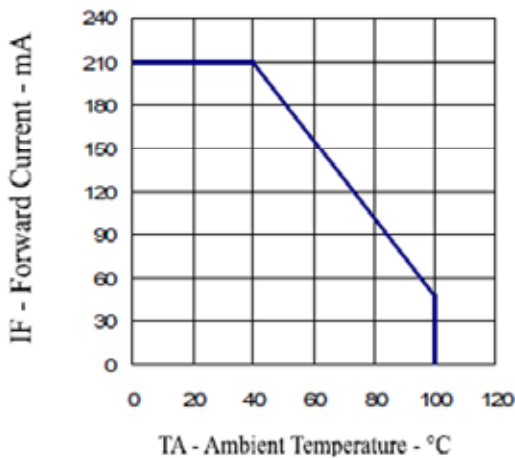
Forward Current vs. Forward Voltage



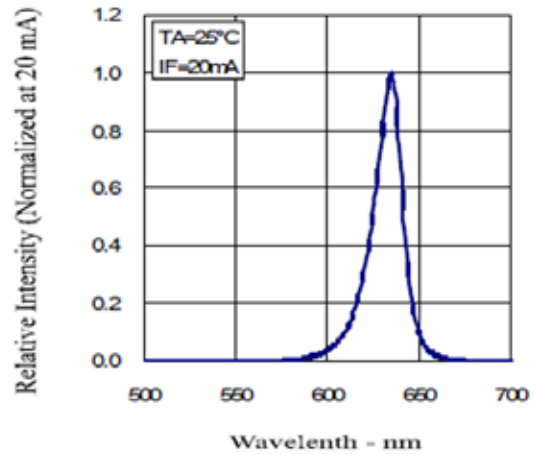
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temperature

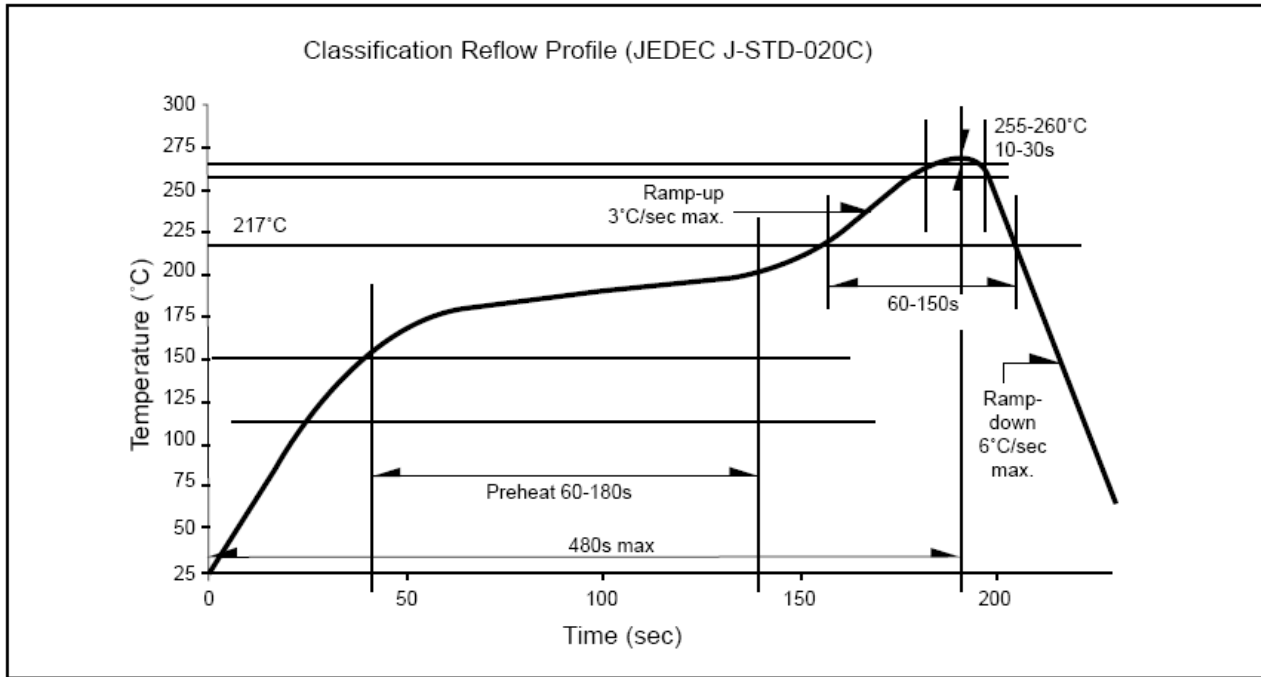
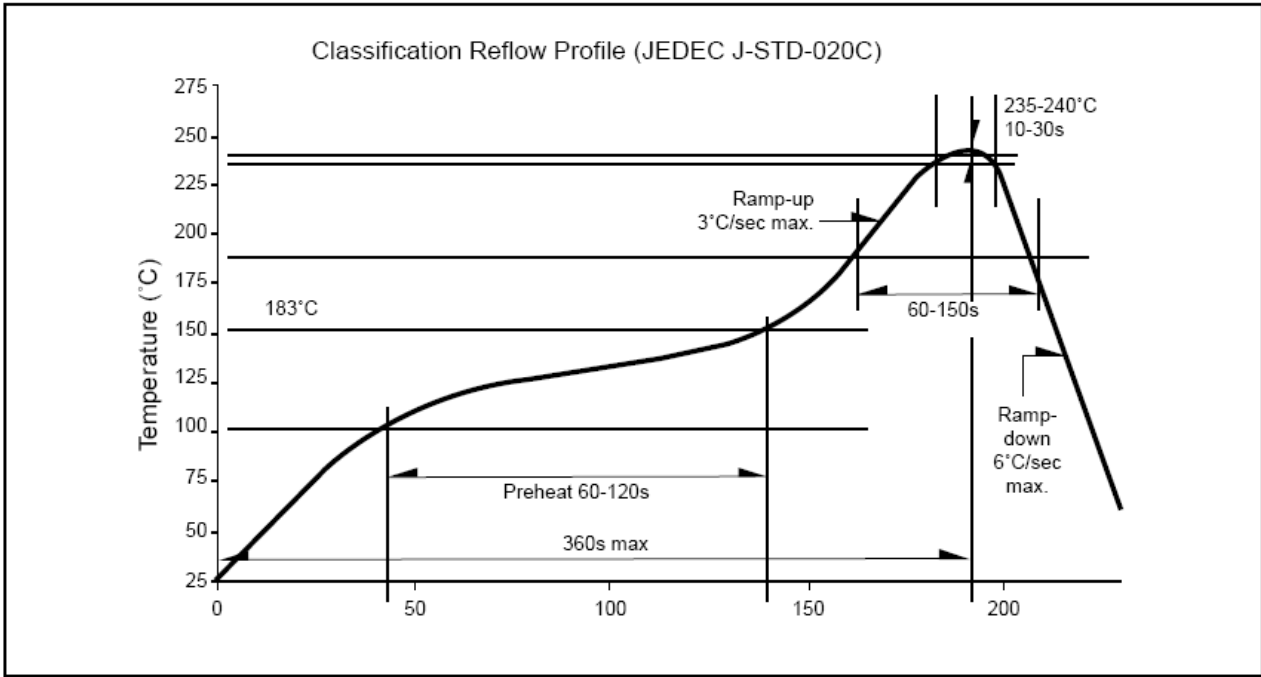


Relative Intensity vs. Wavelength

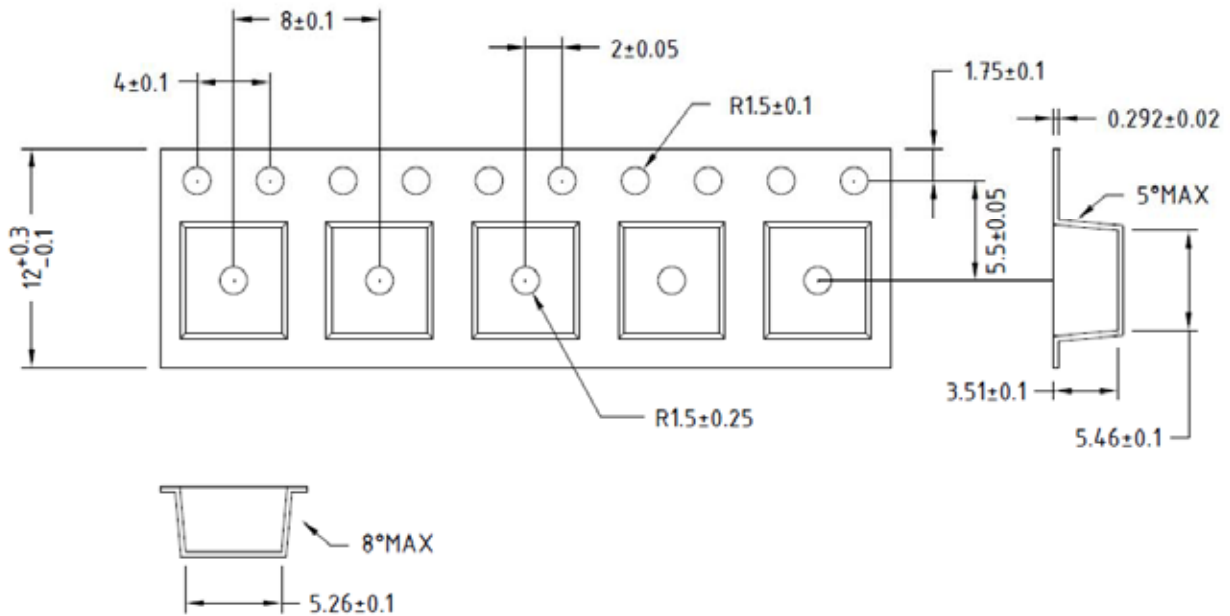
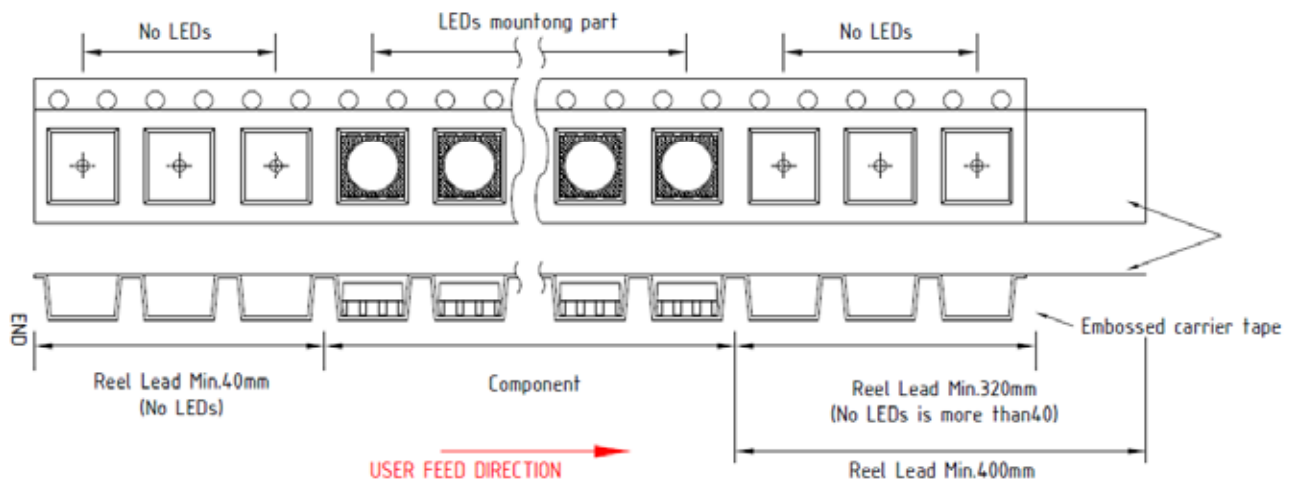


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SOLDERING CONDITIONS



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PACKAGING SPECIFICATION
Tape Dimension

Tape leader and trailer dimension


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