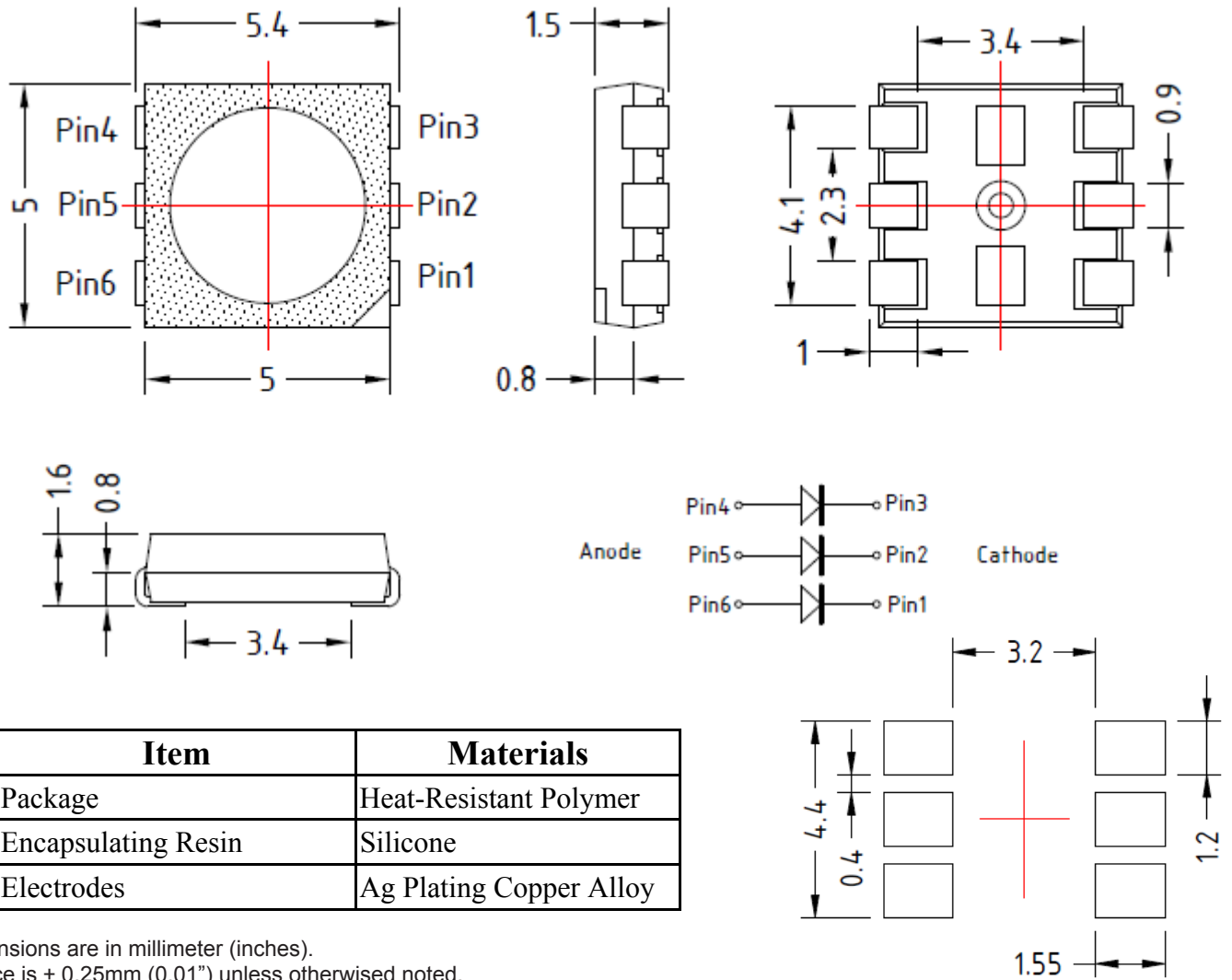


SPECIFICATIONS CSH22W4C

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
CSH22W4C	InGaN	White	Water Clear	120°



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	70	mA
Power Dissipation	P _d	250	mW
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	100	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	I _F = 60mA	-	-	50	μA
CIE Coordinates	X	I _F = 60mA	-	0.31	-	-
CIE Coordinates	Y	I _F = 60mA	-	0.32	-	-
Forward Voltage (per chip)	V _F	I _F = 60mA	-	3.1	3.6	V
Luminous Intensity (per chip)	I _v	I _F = 60mA	4000	5500	-	mcd
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 60mA	-	120	-	Deg

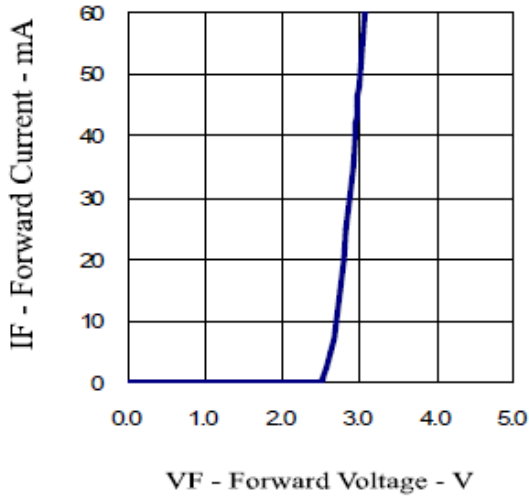
*Tolerance of viewing angle: -10 / +5 deg.



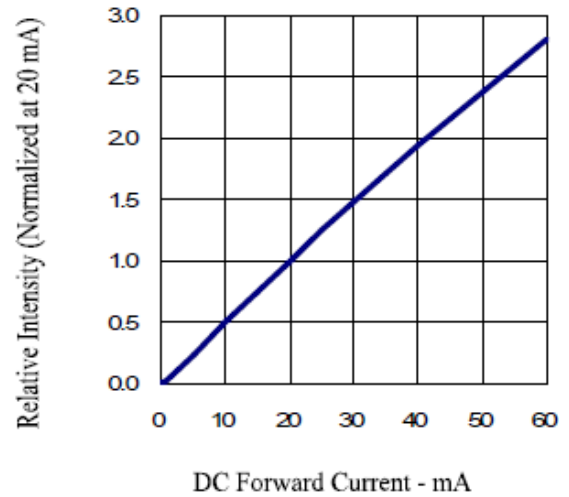
ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

OPTICAL CHARACTERISTIC CURVES

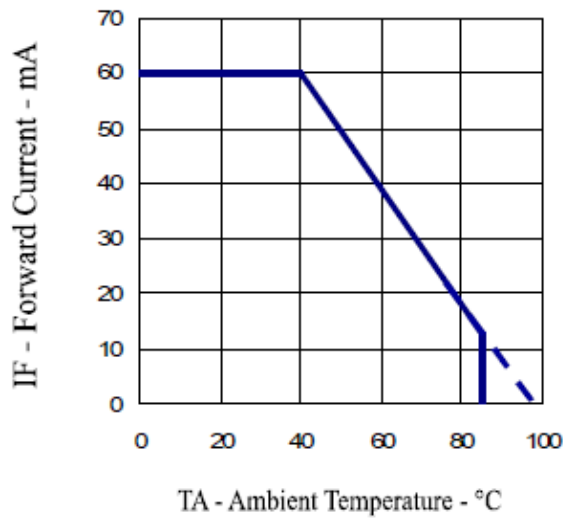
Forward Current vs. Forward Voltage



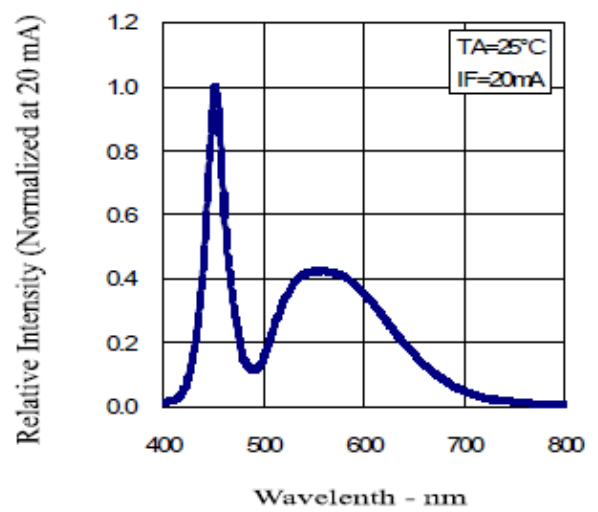
Relative Intensity vs. Forward Current



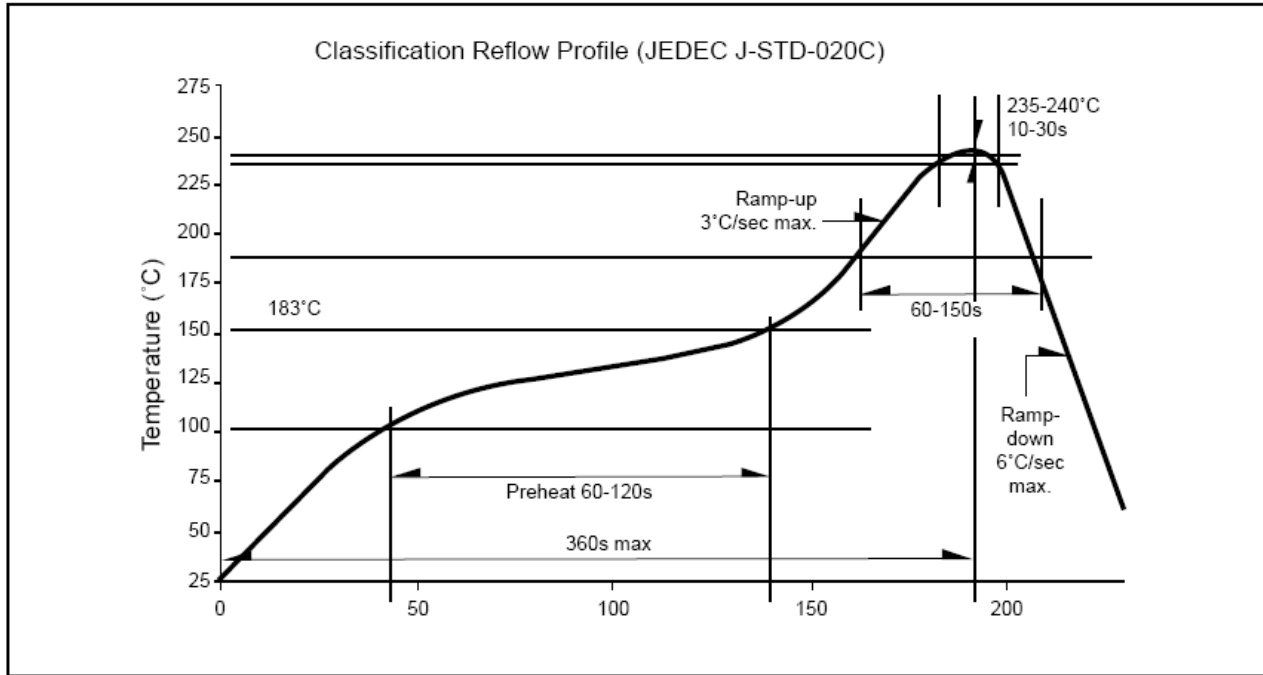
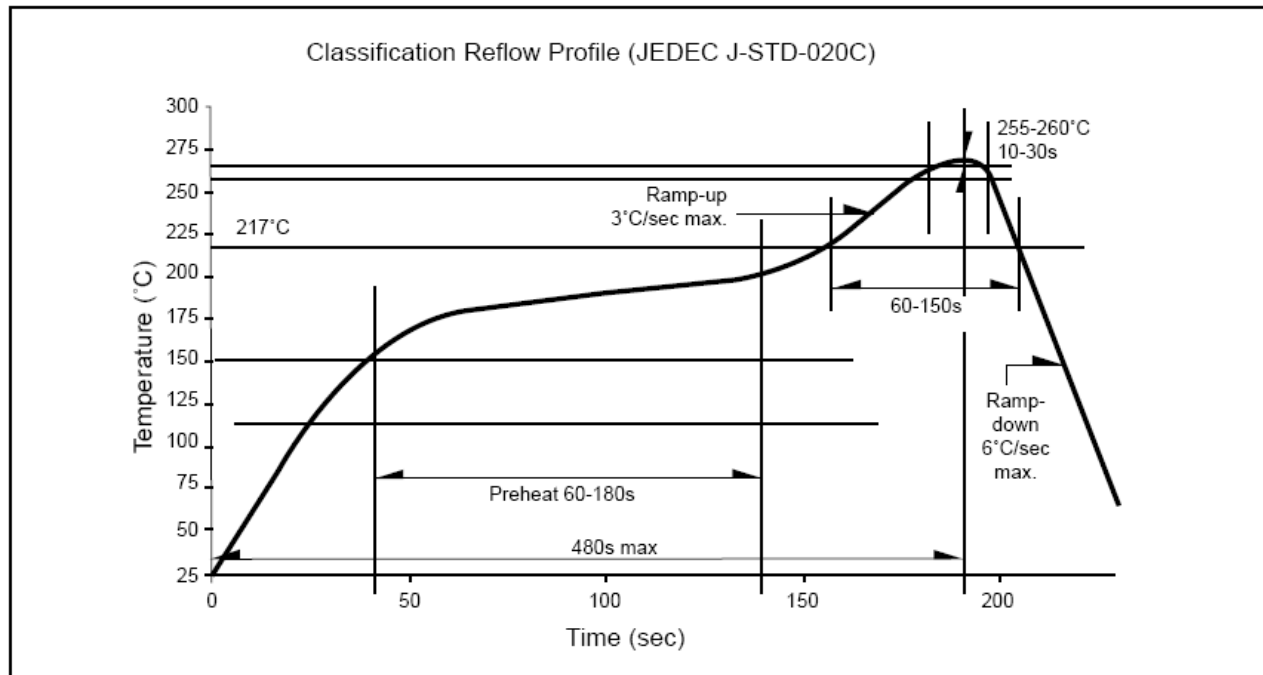
Forward Current vs. Ambient Temperature



Relative Intensity vs. Wavelength



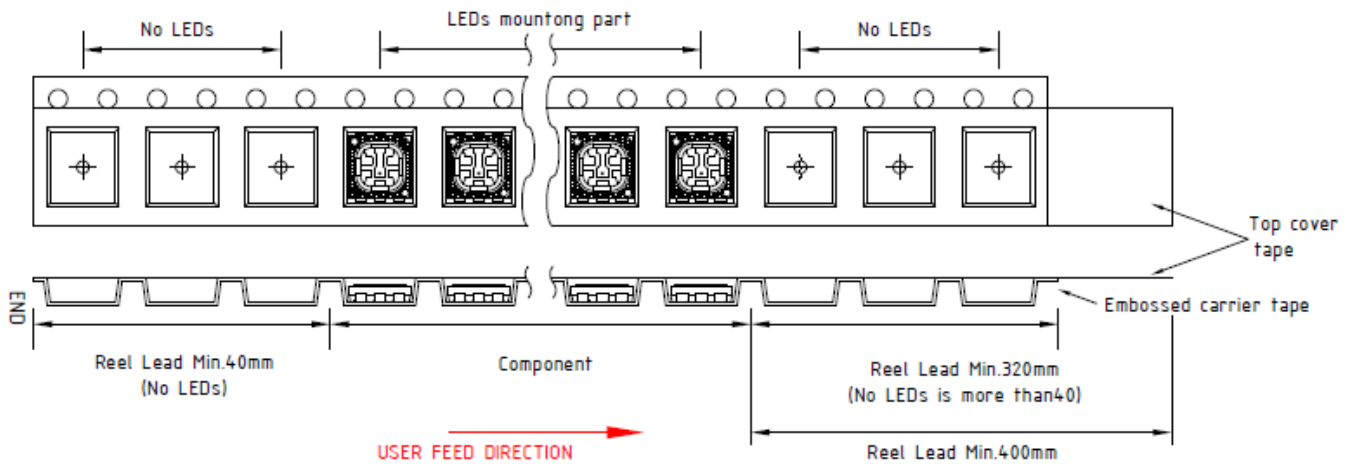
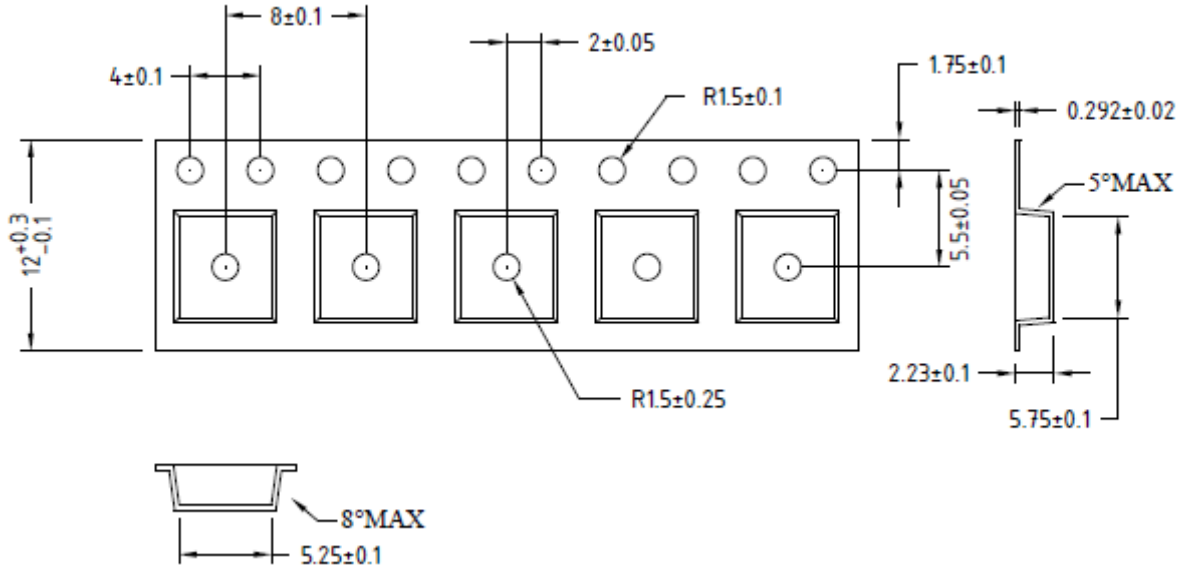
ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

SOLDERING CONDITIONS
RECOMMENDED Sn-PB IR-Reflow Soldering Profile

RECOMMENDED Pb-Free Soldering Profile


ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

PACKAGING SPECIFICATION

Tape dimension



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com