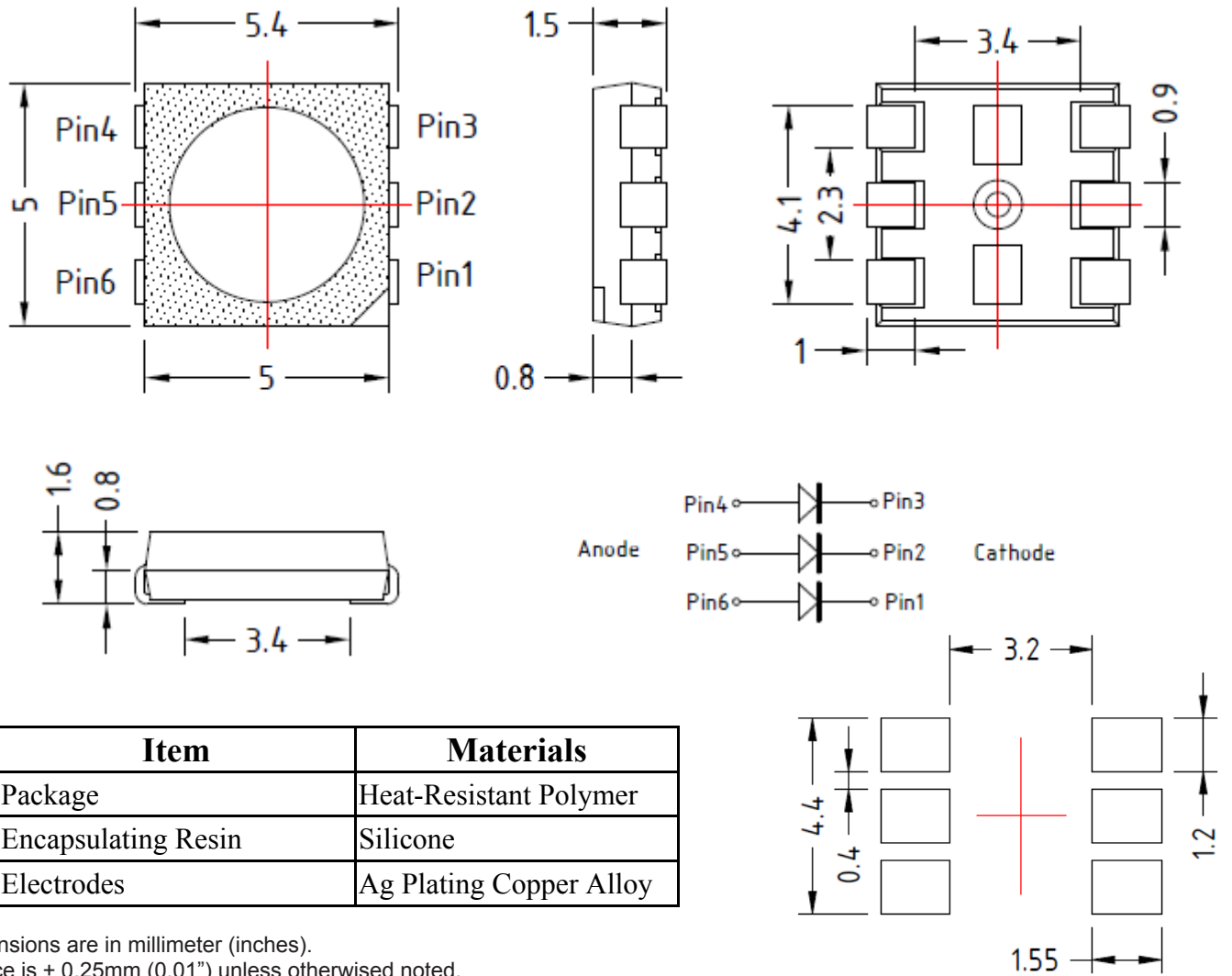


SPECIFICATIONS CSH22B3C

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
CSH22B3C	InGaN	Blue	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	60	mA
Power Dissipation	P _d	330	mW
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{OP}	-40~+85	°C
Storage Temperature Range	T _{STG}	-40~+90	°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	-	-	10	μA
Dominant Wavelength	λ _D	I _F = 60mA	-	465	-	-
Peak Wavelength	λ _P	I _F = 60mA	-	470	-	-
Forward Voltage (per chip)	V _F	I _F = 60mA	-	3.2	3.6	V
Luminous Intensity (per chip)	I _v	I _F = 60mA	1500	2600	-	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

(Ta = 25°C Unless Otherwise Noted)

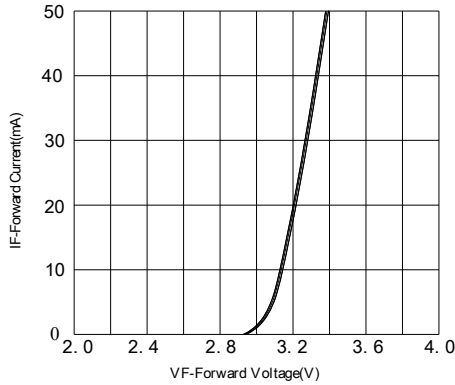


Fig.1 Forward Current vs. Forward Voltage

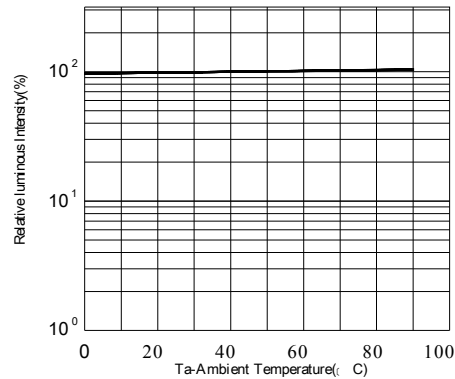


Fig.2 Relative luminous Intensity vs. Ambient Temperature

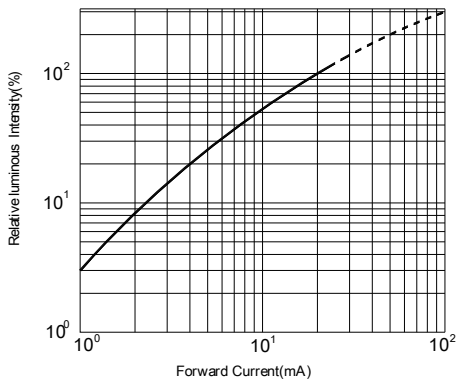


Fig.3 Relative luminous Intensity vs. Forward Current

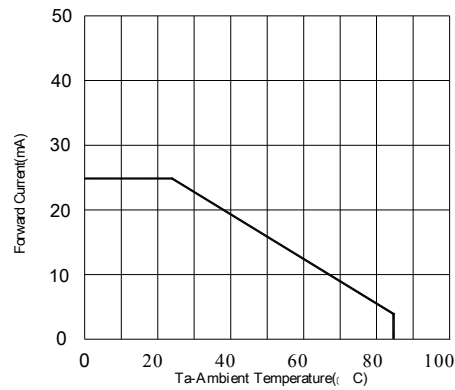


Fig.4 Forward Current vs. Ambient Temperature

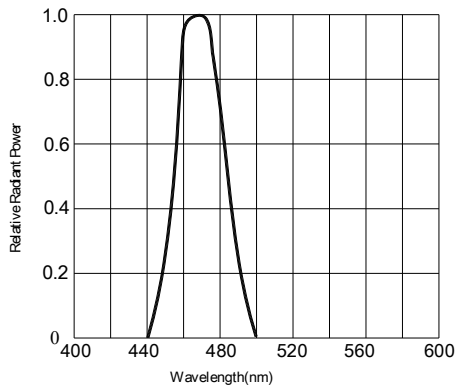


Fig.5 Relative Radiant Power vs. Wavelength

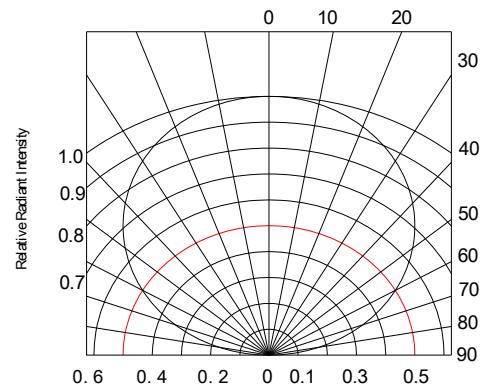
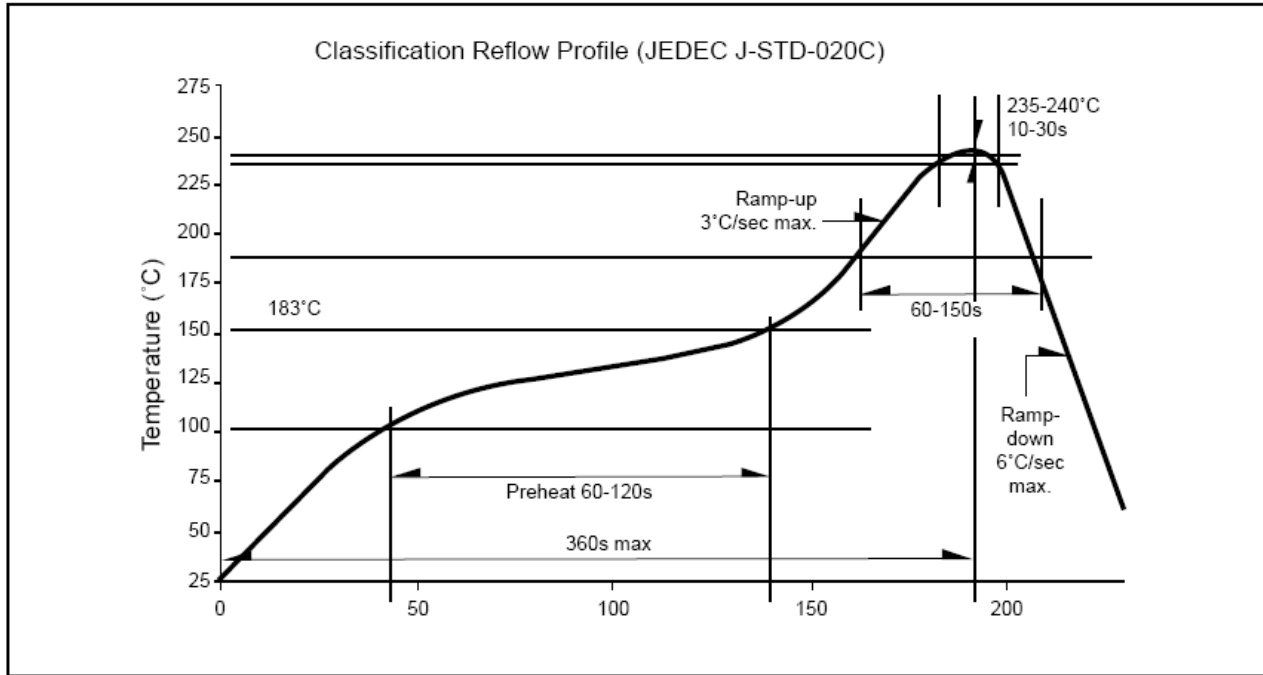
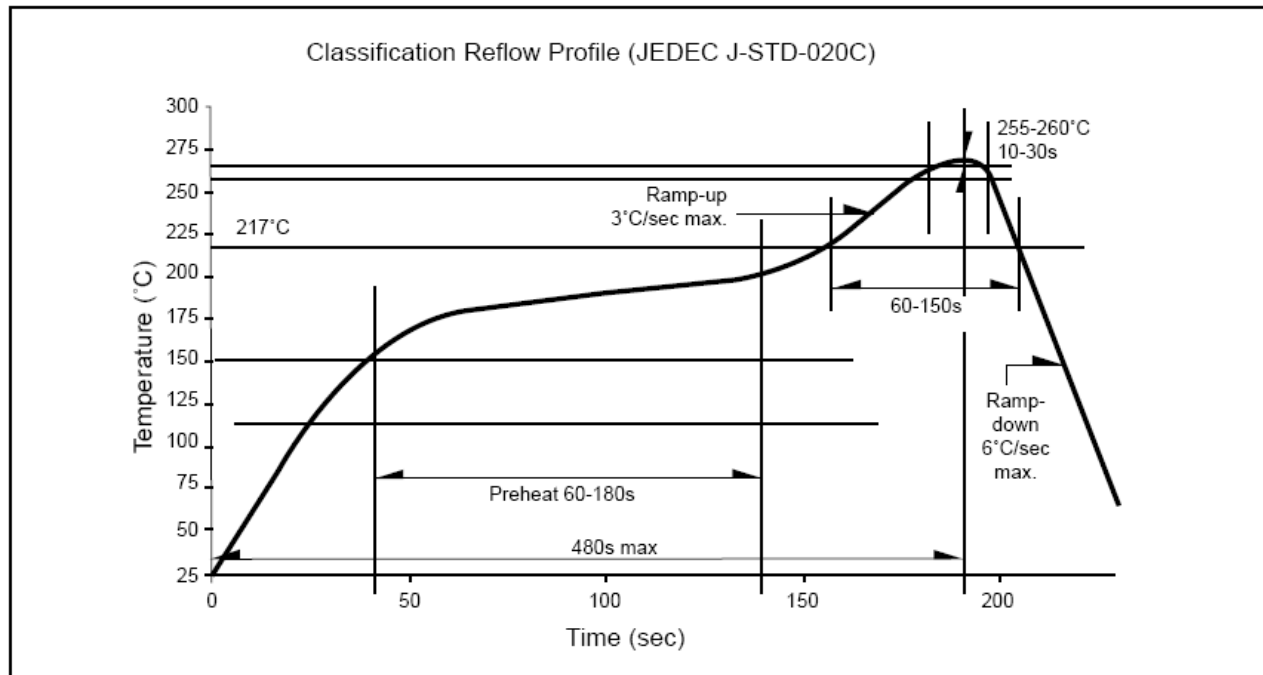


Fig.6 Relative Radiant Intensity vs. Angular Displacement



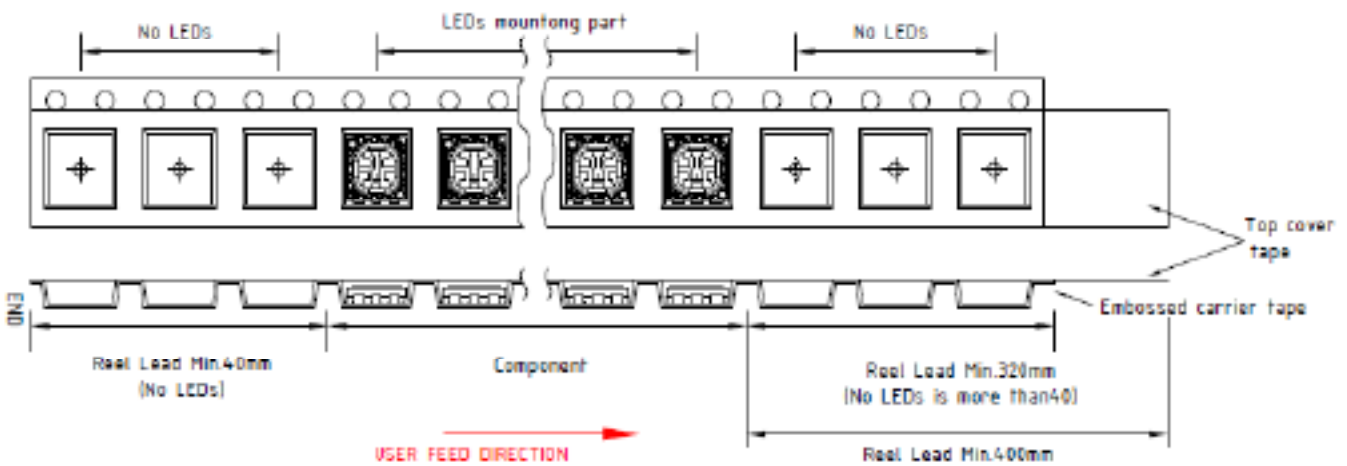
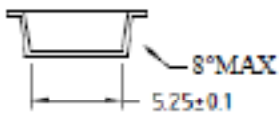
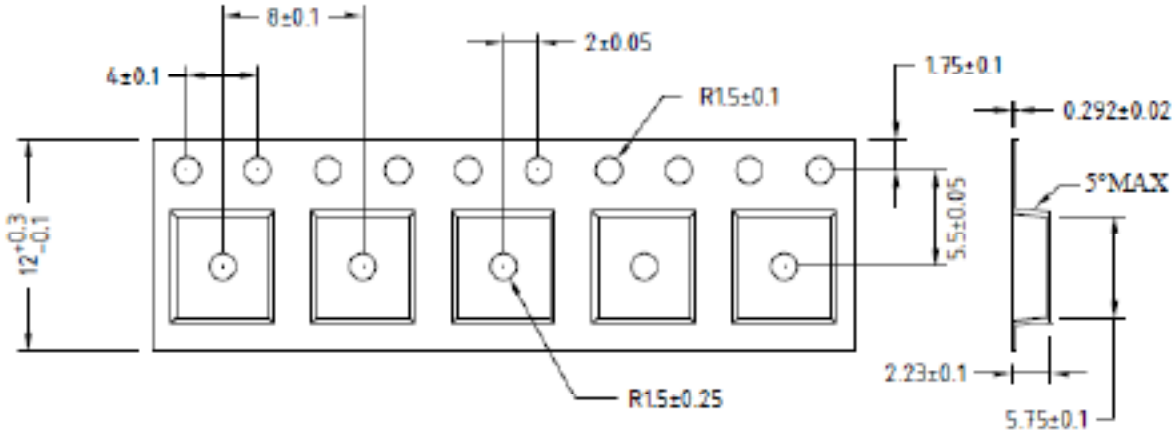
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SOLDERING CONDITIONS
RECOMMENDED Sn-PB IR-Reflow Soldering Profile

RECOMMENDED Pb-Free Soldering Profile


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PACKAGING SPECIFICATION

Tape dimension



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