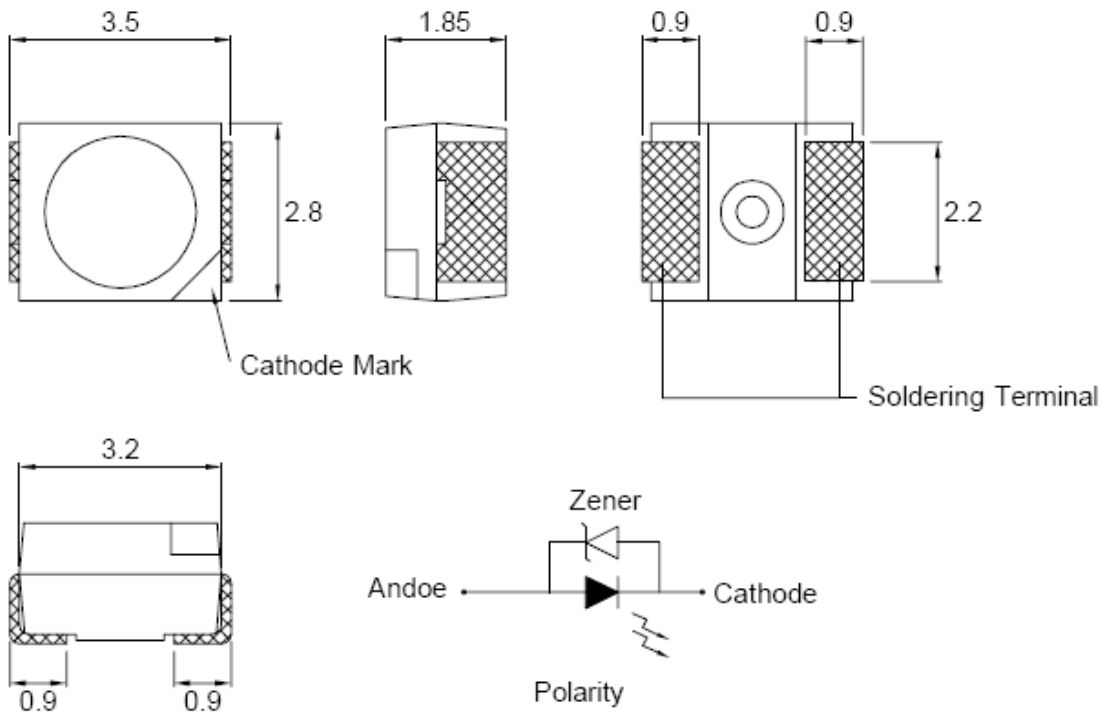


SPECIFICATION **CSP1311UV2ZC**
PACKAGE OUTLINES

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
CSP1311UV2ZC	InGaN	Purple	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	30	mA
Reverse Current @ 5V	I _R	50	μA
Power Dissipation	P _d	120	mW
Operating Temperature Range	T _{OP}	-20~+80	°C
Storage Temperature Range	T _{STG}	-30~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	100	mA
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

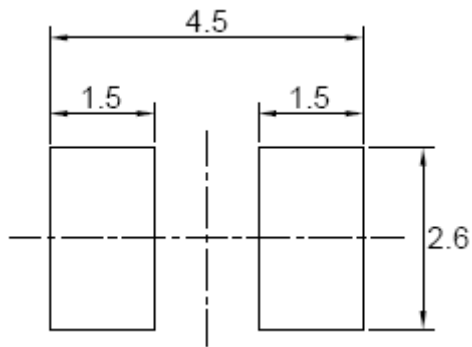
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Radiant Intensity	P _O	I _F = 20mA	1.8	2.4	-	mW/sr
Forward Voltage	V _F	I _F = 20mA	-	3.5	4.0	V
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	120	-	Deg
Peak Wavelength	λ _P	I _F = 20mA	-	400	-	nm
Spectral Line Half-Width	Δλ	I _F = 20mA	-	20	-	nm

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



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RECOMMENDED SOLDER PAD



Notes:

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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

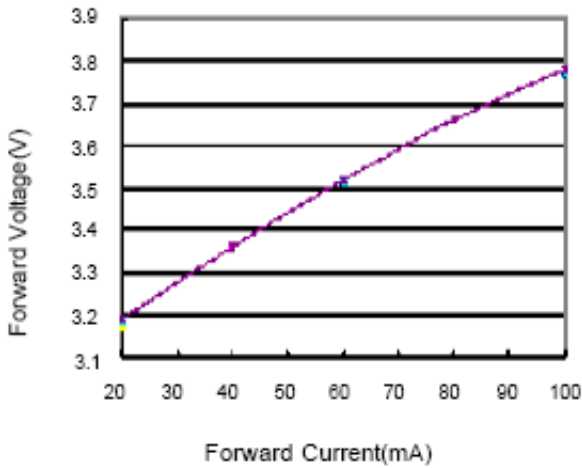


Fig.2 Relative Intensity vs Forward Current

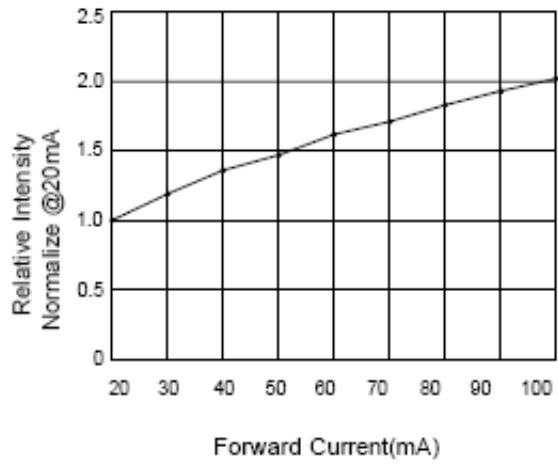


Fig.3 Forward Current vs. Wavelength

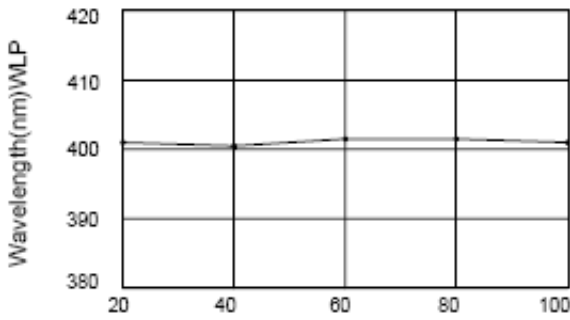


Fig.4 Relative Intensity vs. Wavelength

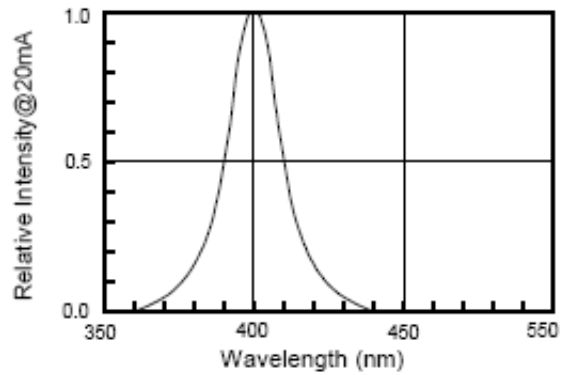
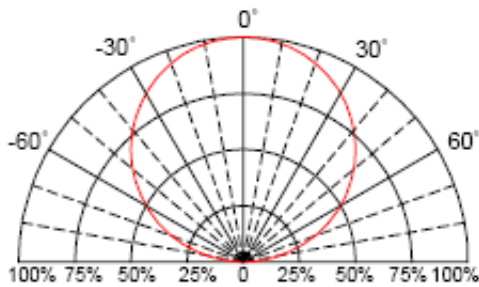


Fig.5 Directive Radiation



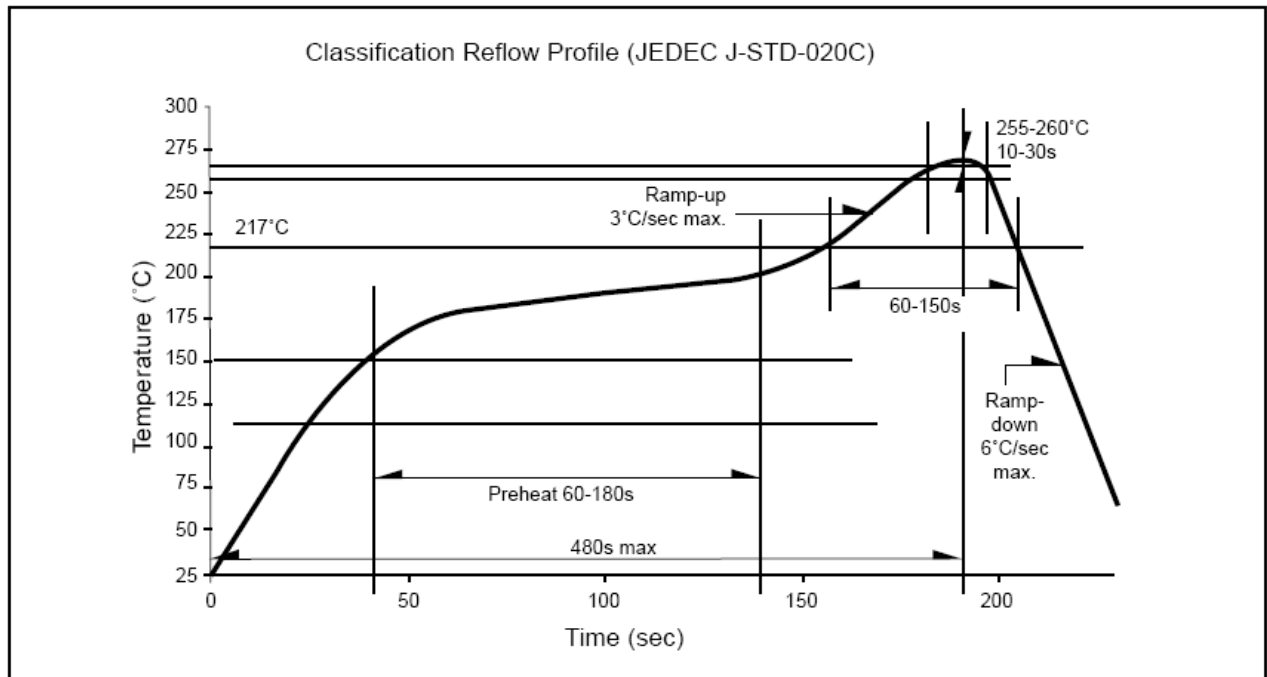
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SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile



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