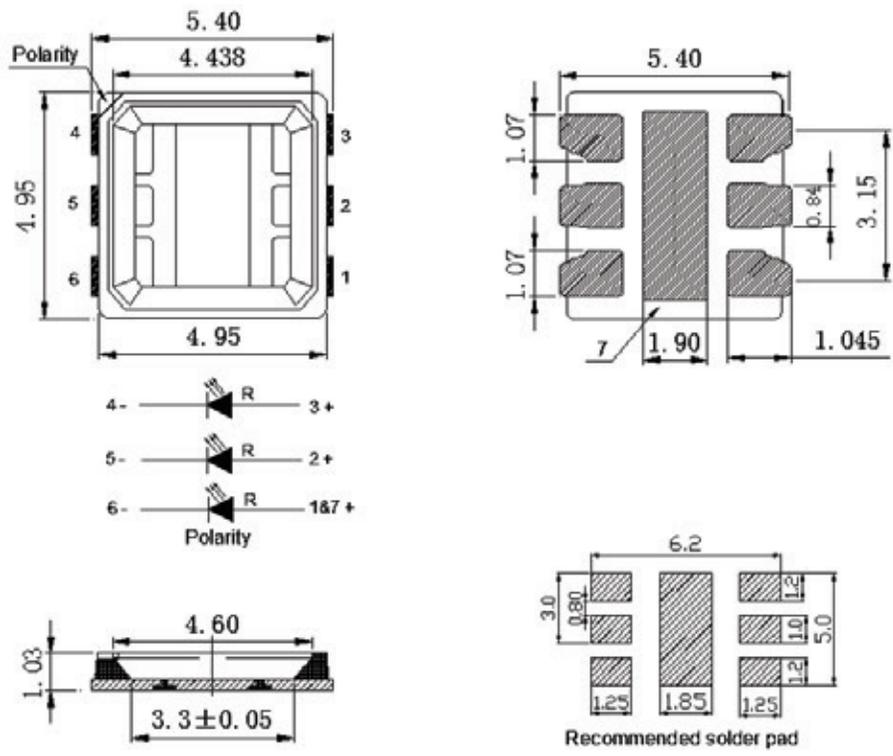


SPECIFICATION **CSPJ22RRR3C**
PACKAGE OUTLINES


- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is ± 0.25mm (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSPJ22RRR3C	InGaAlP	Red	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	IF	180	mA
Reverse Current @ 5V	IR	10	μA
Power Dissipation	Pd	150	mW
Operating Temperature Range	TOP	-40~+85	°C
Storage Temperature Range	TSTG	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	IFP	100	mA
Soldering Temperature	TSOL	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	Iv	IF = 50mA	-	7150	-	mcd
Forward Voltage	VF	IF = 50mA	-	2.0	2.6	V
Reverse Leakage Current	IR	VR = 5V	-	10	-	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 50mA	-	120	-	Deg
Peak Wavelength	λP	IF = 50mA	-	632	-	nm
Dominant Wavelength	λD	IF = 50mA	-	624	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Relative Intensity vs. Wavelength

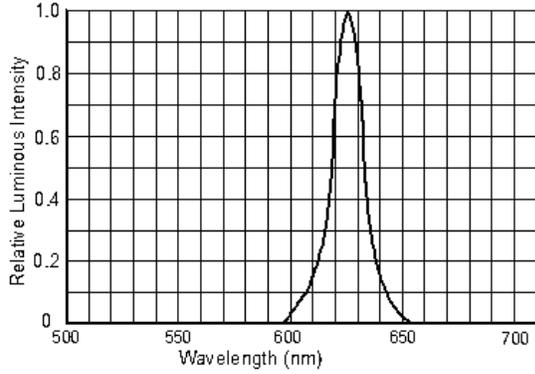


Fig.2 Forward Current vs. Ambient Temperature

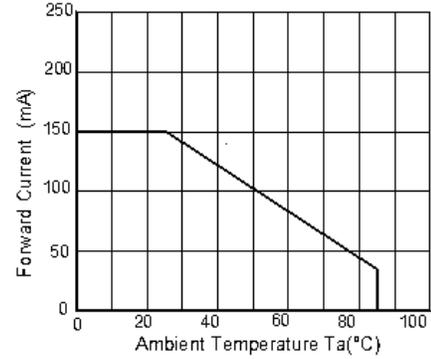


Fig.3 Forward Current vs. Forward Voltage

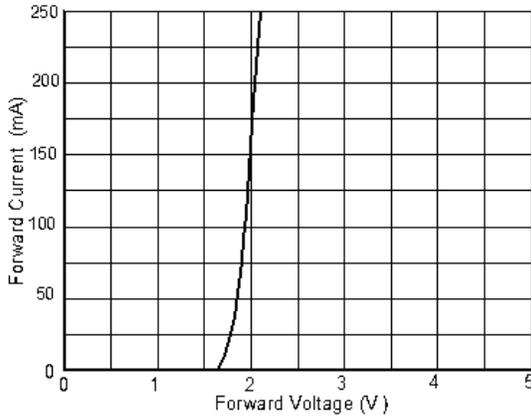


Fig.4 Relative Luminous Intensity vs. Ambient Temperature

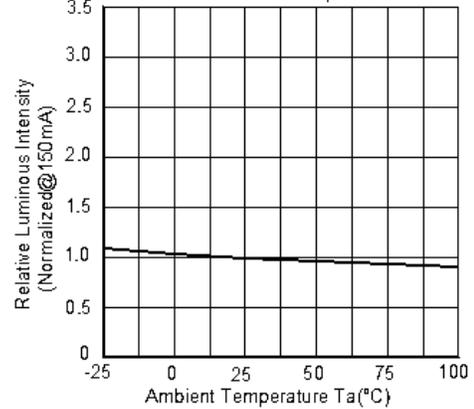


Fig.5 Relative Luminous Intensity vs. Forward Current

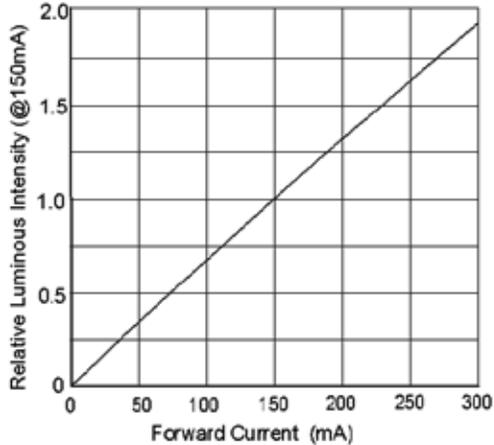
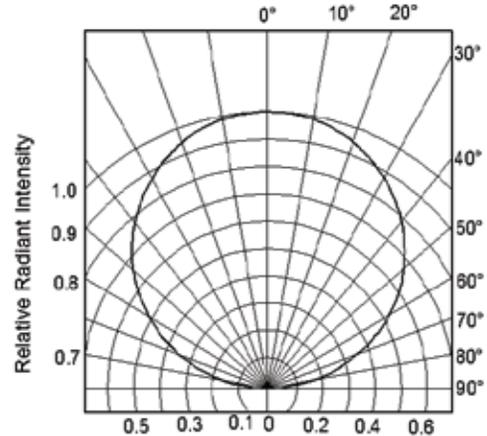


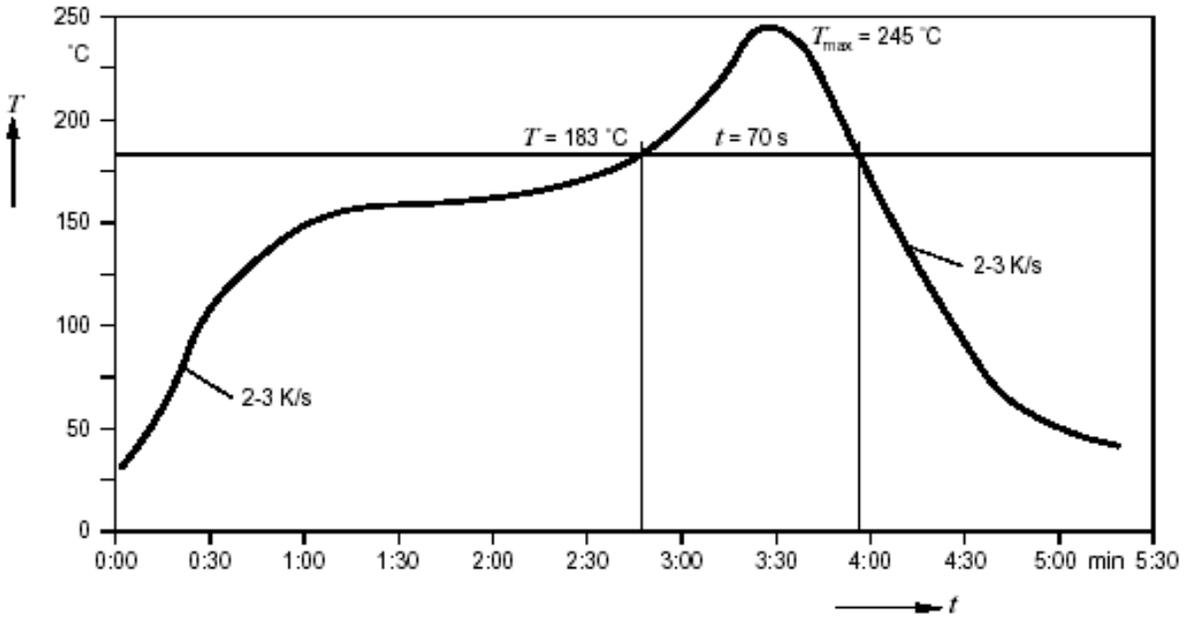
Fig.6 Radiation Diagram (Ta=25°C)



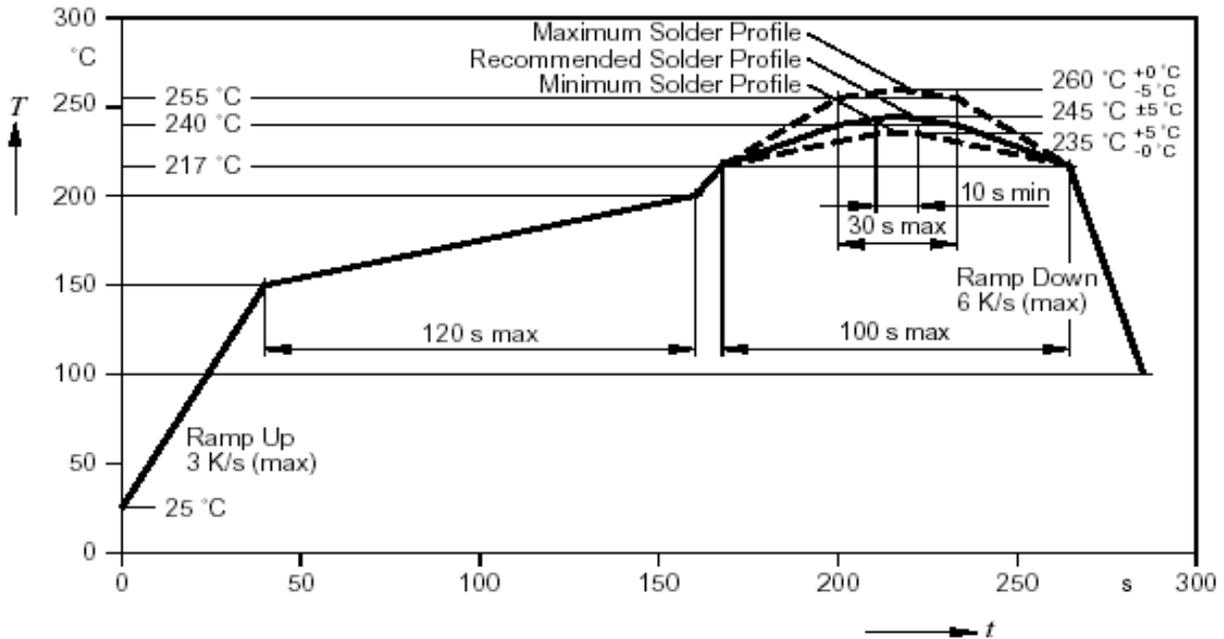
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SOLDERING CONDITIONS

Suggest Sn/Pb IR Reflow Soldering Profile Condition:



• **Suggest Pb-Free IR Reflow Soldering Profile Condition:**



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