

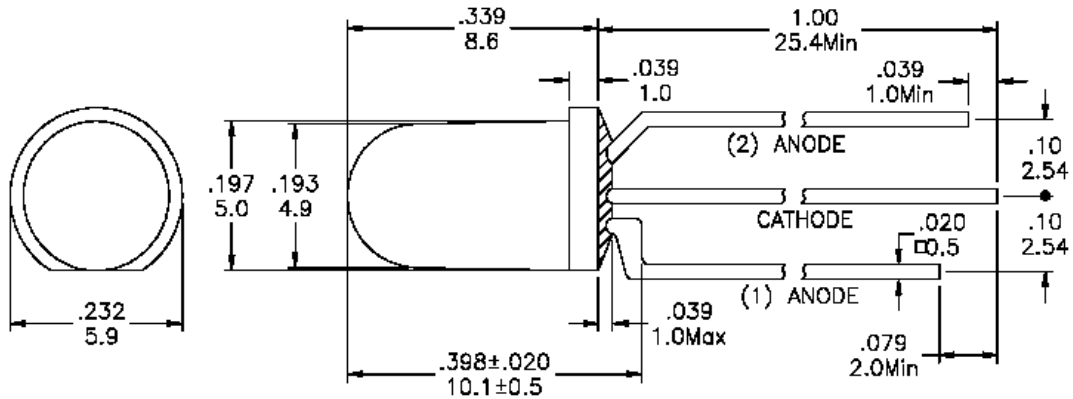
## SPECIFICATION

## CLB50R1G1W

### PACKAGE OUTLINES

#### Features

- \*5mm Bicolor Red/Green
- \*Wide Viewing Angle
- \*Low Power Consumption
- \*Common Cathode



Notes: Unit = inches, Tolerance = ± 0.01 inch  
 mm 0.25 mm

(1) Anode = Red  
 (2) Anode = Green

#### 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
CLB50R1G1W	GaAsP/GaP	Red	White Diffused	30°
	GaAsP/GaP	Green	White Diffused	30°



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**ABSOLUTE MAXIMUM RATINGS**
**(TA=25°C)**

Parameter	Symbol	Max Rating	Unit
Forward Current	I <sub>F</sub>	30	mA
Reverse Current @ 5V	I <sub>R</sub>	10	μA
Power Dissipation	P <sub>d</sub>	84	mW
Operating Temperature Range	T <sub>OP</sub>	-40~+80	°C
Storage Temperature Range	T <sub>STG</sub>	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I <sub>FP</sub>	100	mA
Soldering Temperature	T <sub>SOL</sub>	Max 260°C for 5 sec Max	

**OPTICAL-ELECTRICAL CHARACTERISTICS**
**(TA=25°C)**

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20mA	R	10	20	-	mcd
			G	8	15		
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	R	-	2.0	2.8	V
			G	-	2.2	2.8	
Viewing Angle at 50% I <sub>v</sub>	2θ <sub>1/2</sub>	I <sub>F</sub> = 20mA	-	-	30	-	Deg
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> = 20mA	R	-	635	-	nm
			G		570		
Dominant Wavelength	λ <sub>D</sub>	I <sub>F</sub> = 20mA	R	-	630	-	nm
			G		568		

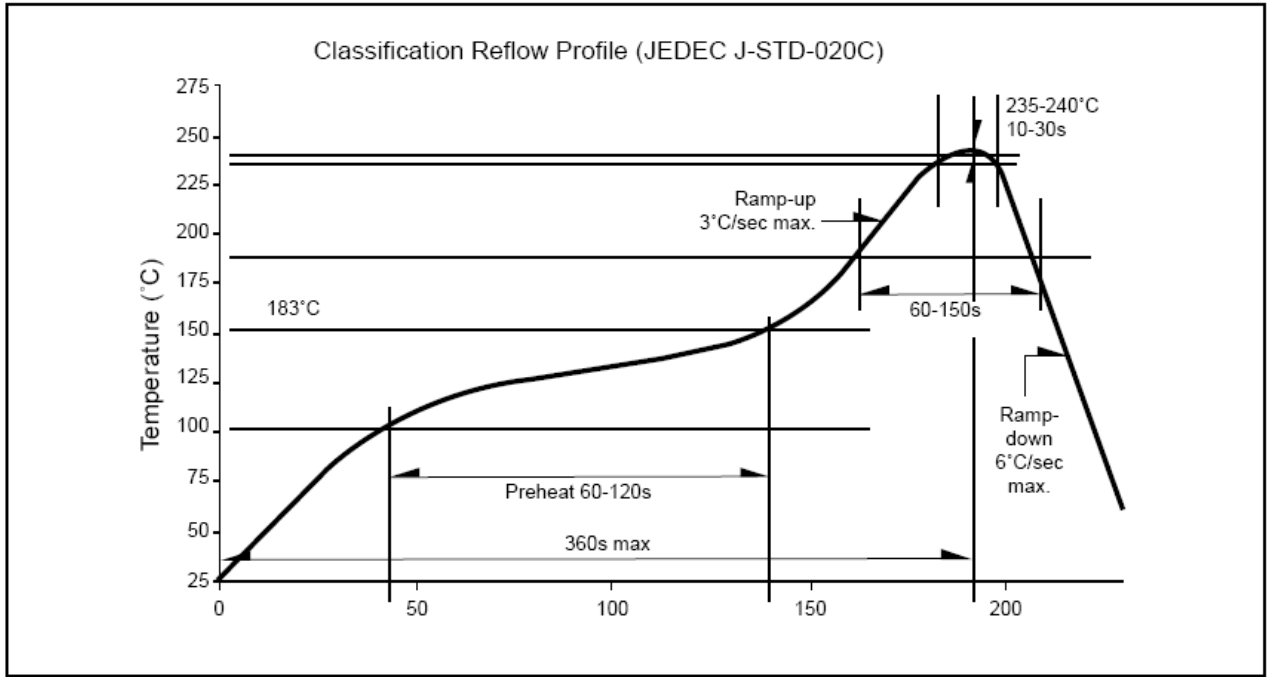
\*Tolerance of viewing angle: -10 / +5 deg.



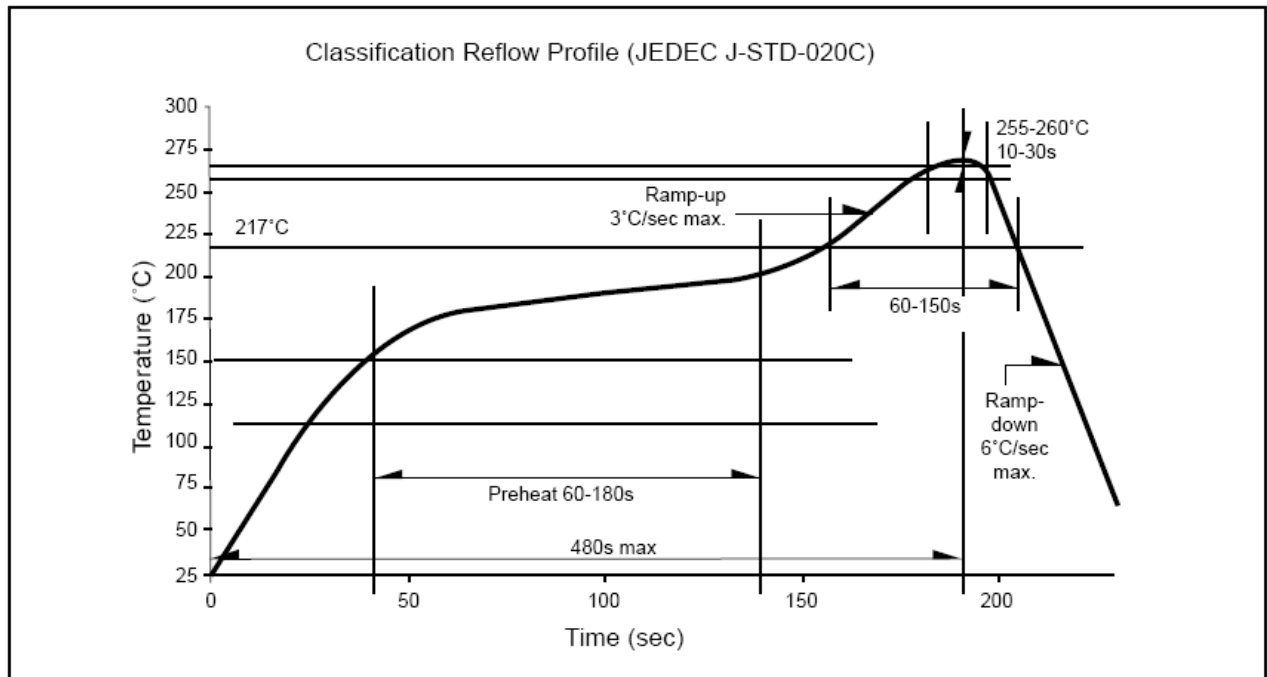
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# SOLDERING CONDITIONS

## RECOMMENDED Sn-PB IR-Reflow Soldering Profile



## RECOMMENDED Pb-Free Soldering Profile



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