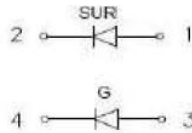
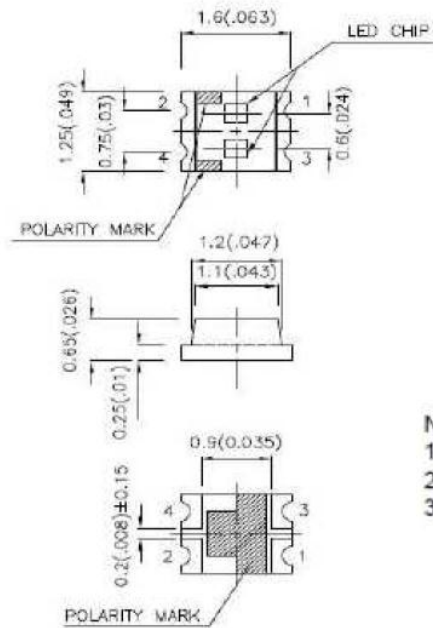


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- Notes:
1. All dimensions are in millimeters (inches).
  2. Tolerance is  $\pm 0.2(0.008")$  unless otherwise noted.
  3. Specifications are subject to change without notice.

Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
		Min.	Typ.	2θ1/2
Hyper Red (AlGaInP)	WATER CLEAR	70	220	120°
Green (AlGaInP)		18	50	

- Notes:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
  2. Luminous intensity/ luminous Flux: +/-15%.

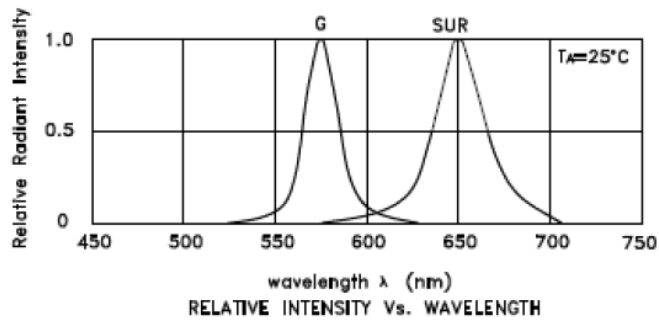
Absolute Maximum Ratings at TA=25°C

Parameter	Maximum Rating	Unit
DC Forward Current	30	mA
Power Dissipation	R	170
	G	105
		mW
Pulse Current (1/10 Duty Cycle, 0.1ms Pulse Width)	185	mA
Reverse Voltage(V <sub>r</sub> )	5	V
Operating Temperature Range	-40°C to + 85°C	
Storage Temperature Range	-40°C to + 85°C	
Lead Soldering Temperature	230°C for 5 Seconds	

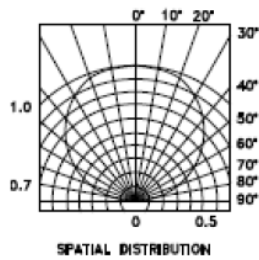
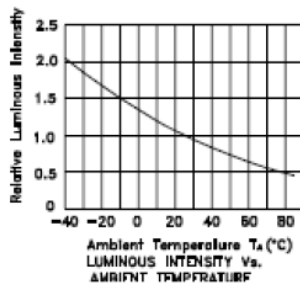
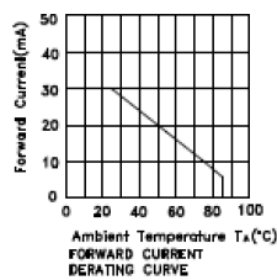
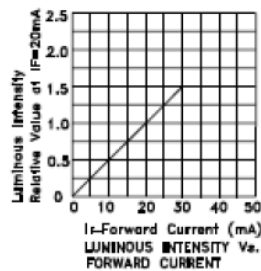
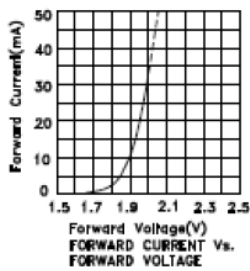
Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV(R)	70	150		mcd	IF = 20mA
	IV(G)	18	50			
Viewing Angle	2θ1/2		120		deg	IF = 20mA
Dominant Wavelength	λd(R)		635		nm	IF = 20mA
	λd(G)		570			
Forward Voltage	VF(R)		1.95	2.5	V	IF = 20mA
	VF(G)		2.1	2.5		
Reverse Current, any Dot	IR			10	μA	VR = 5V

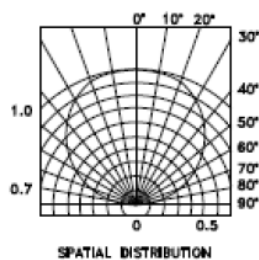
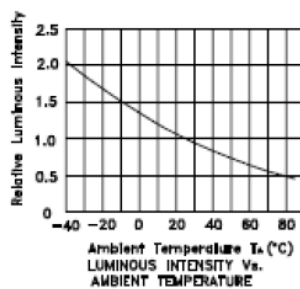
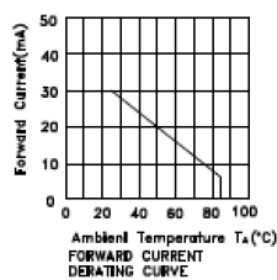
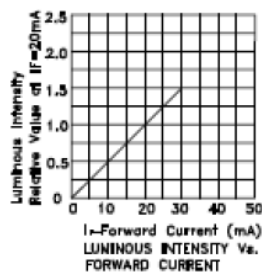
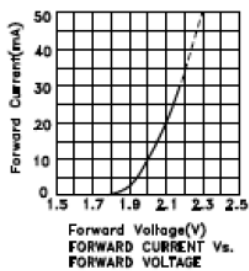
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Red



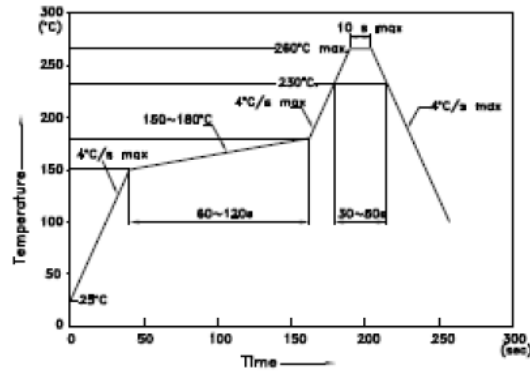
Green



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Reflow soldering is recommended and the soldering profile is shown below.  
Other soldering methods are not recommended as they might cause damage to the product.

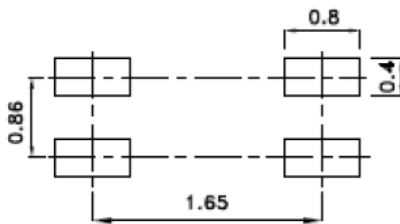
Reflow Soldering Profile For Lead-free SMT Process.



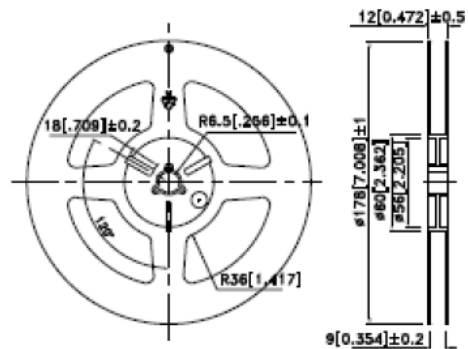
NOTES:

1. We recommend the reflow temperature 245°C (+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern  
(Units : mm; Tolerance: ± 0.1)



Reel Dimension



Tape Dimensions  
(Units : mm)

