

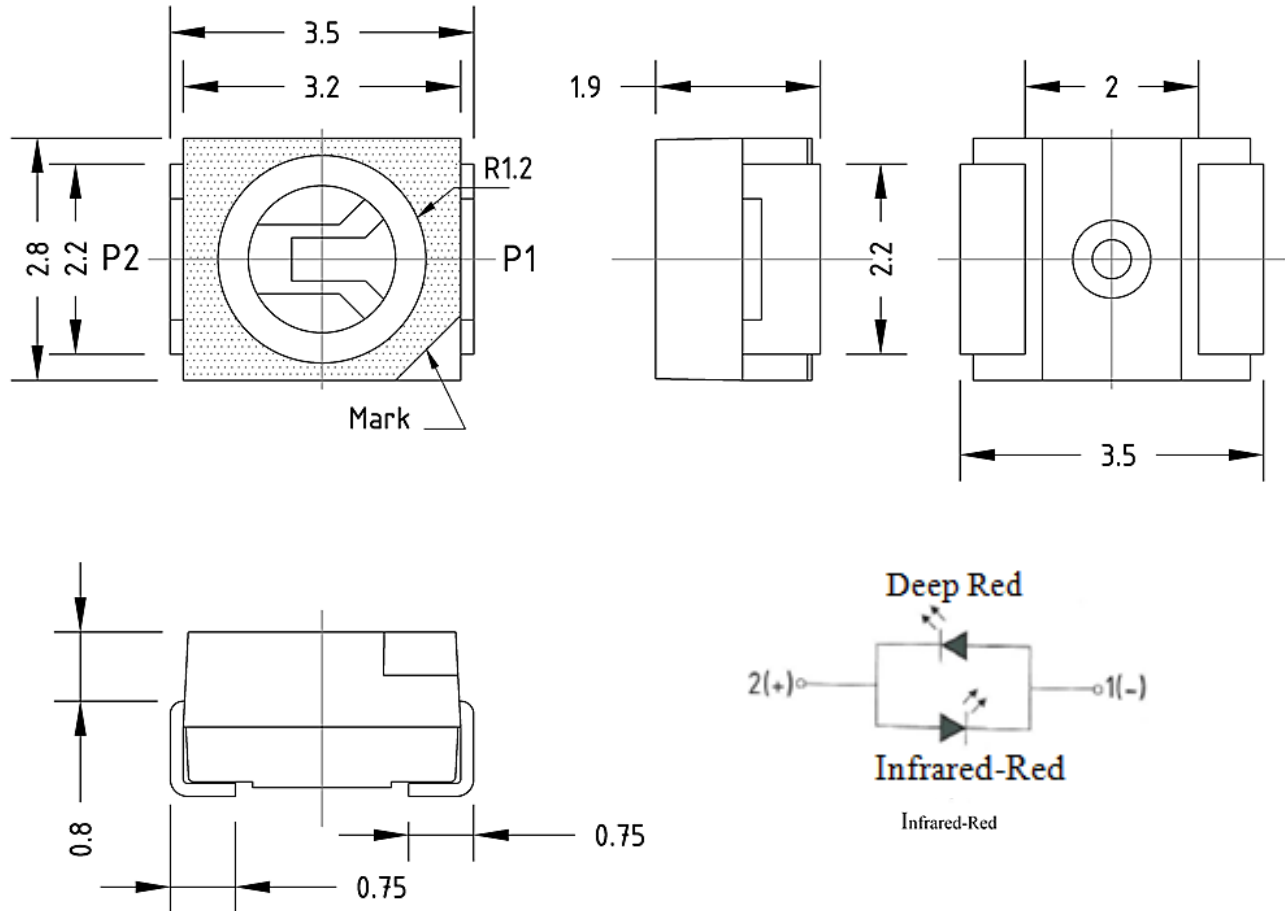


American Opto Plus LED Corp.

L955SRIRC-TR

3.5 x 2.8 x 1.9 mm Bi-Color PLCC-2

PACKAGE OUTLINES:



Item	Materials
Package	Heat-Resistant Polymer
Encapsulating Resin	Silicone
Electrodes	Ag Plating Copper Alloy

NOTES:

1. All dimensions are in millimeters (inches);
2. Electrical Connection between all Cathodes is Recommended



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ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Max Rating		Unit
		SR	IR	
DC Forward Current	I _F	50	50	mA
Peak Pulse Forward Current *	I _{PF}	100	--	mA
Surge Current (t=10 μs) *	I _{FP}	--	1	A
Power Dissipation Single Color	P _D	120	85	mW
Reverse Voltage	V _R	5	5	V
Operating Temperature	T _{OPR}	-30~+85		°C
Storage Temperature	T _{STG}	-40~+100		°C
Solder Temperature	T _{SOL}	265°C for 10 sec Hand soldering: 350°C for 3sec		

*Pulse width ≤ 100 μs, Duty Ratio ≤ 1%

OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Parameter	Symbol	Test Condition	Super Red			Infrared			Unit
			Min	Typ	Max	Min	Typ	Max	
Forward Voltage	V _F	I _F =20mA	2.0	2.1	2.4	--	1.5	1.7	V
Reverse Current	I _R	V _R =5V	--	--	10	--	--	10	μA
Peak Wavelength	λ _p	I _F =20mA	650	660	670	840	850	860	nm
Spectral Half Width	Δλ _{1/2}	I _F =20mA	--	16	--	--	35	--	nm
Radiant Intensity	E _e	I _F =20mA	--	45	--	--	30	--	mW/sr

Notes: Luminous intensity tolerance is ±10%

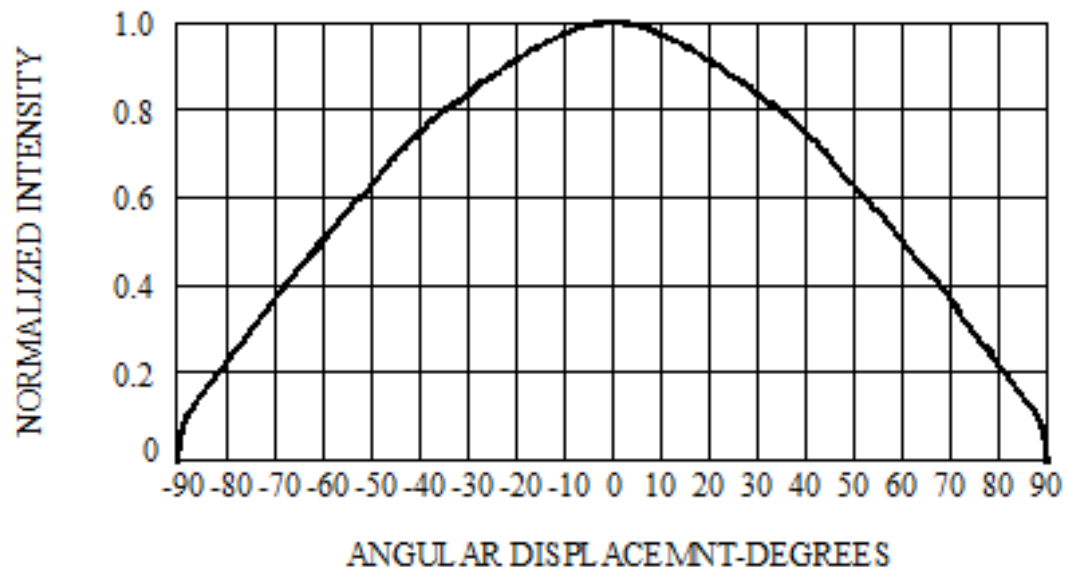


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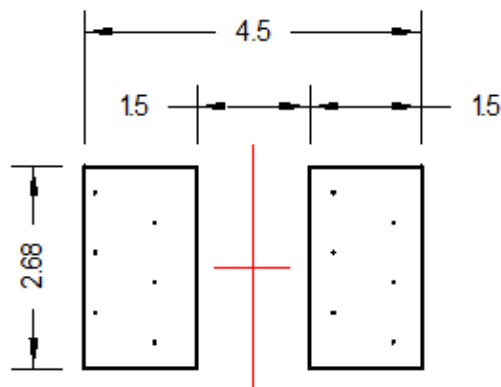
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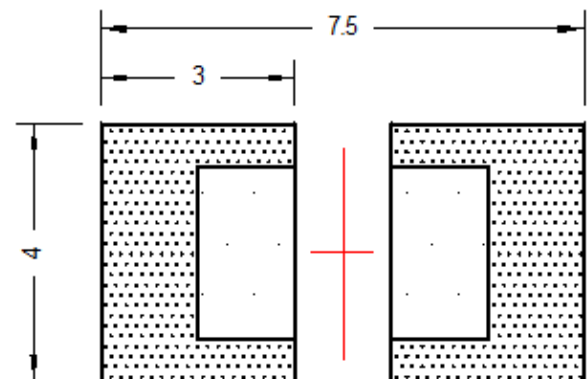
Radiation Pattern



Recommended Soldering Pad Pattern



(Unit:mm)



 Solder resist

(Unit:mm)



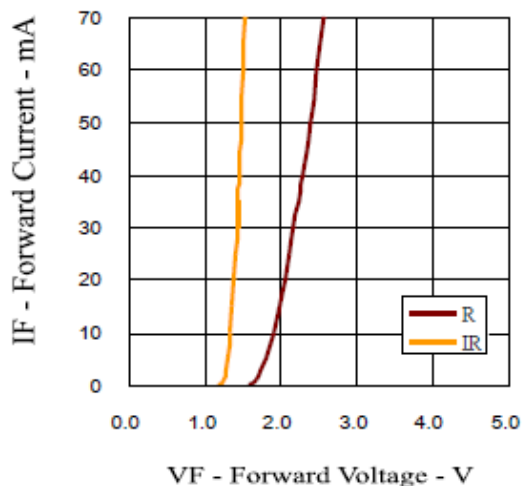
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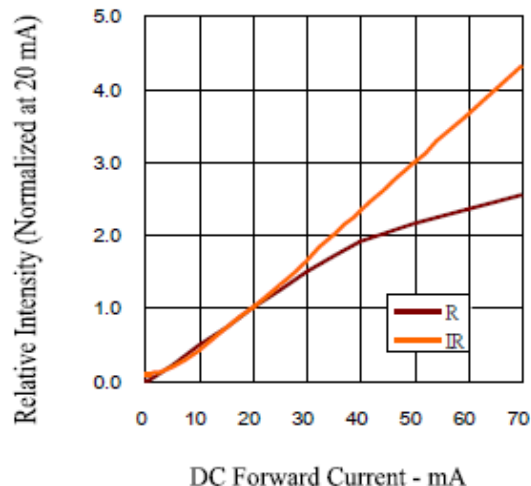
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Electrical-Optical Characteristics

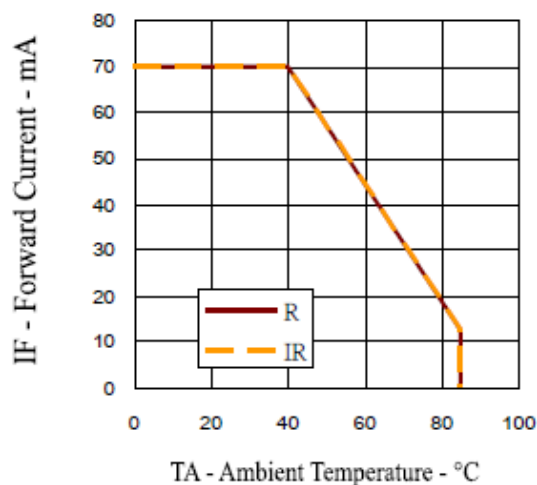
Forward Current vs. Forward Voltage



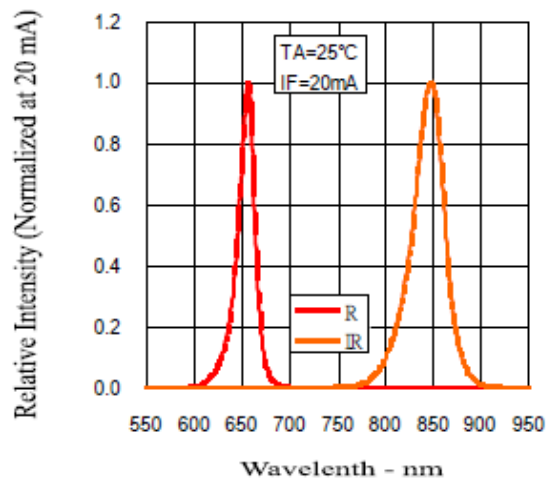
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temperature



Relative Intensity vs. Wavelength



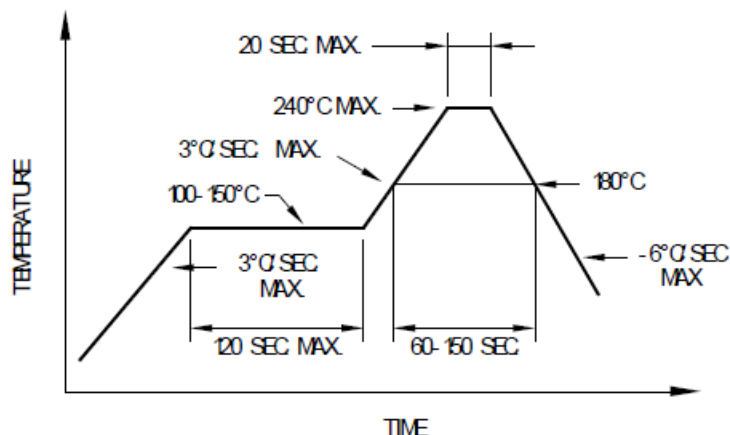


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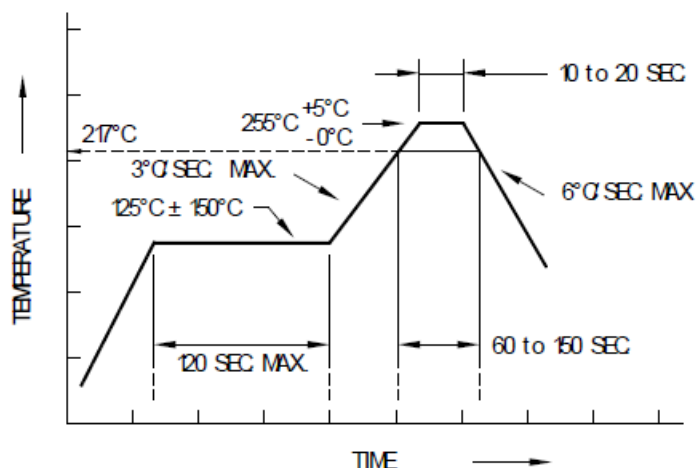
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Soldering Conditions



Recommended reflow soldering profile



Recommended Pb-free reflow soldering profile

- Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.
- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.

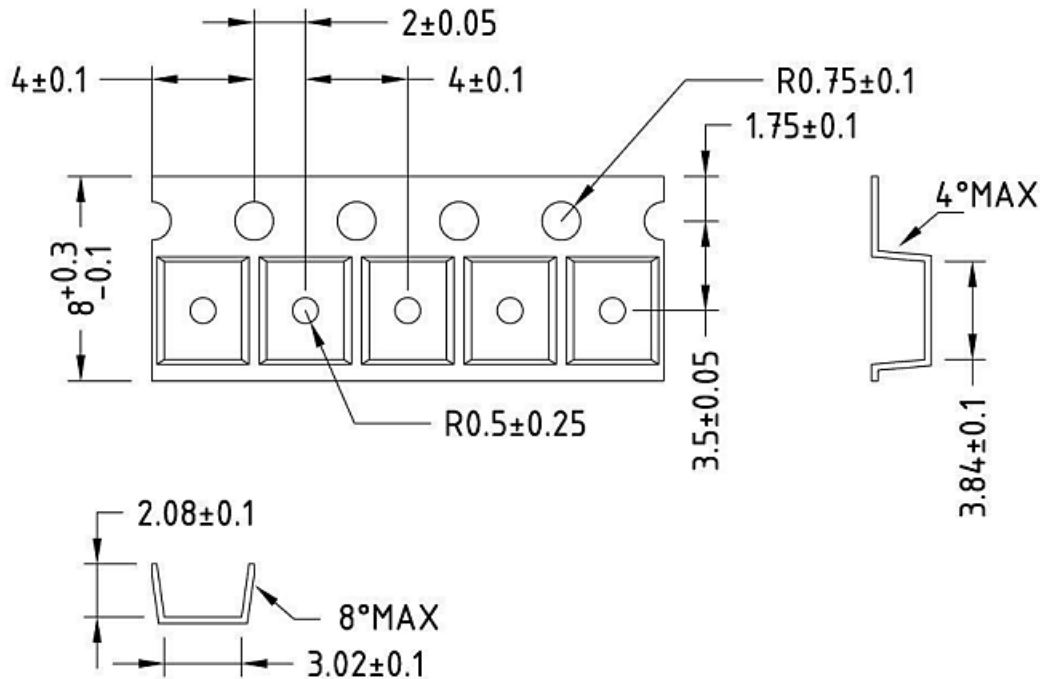


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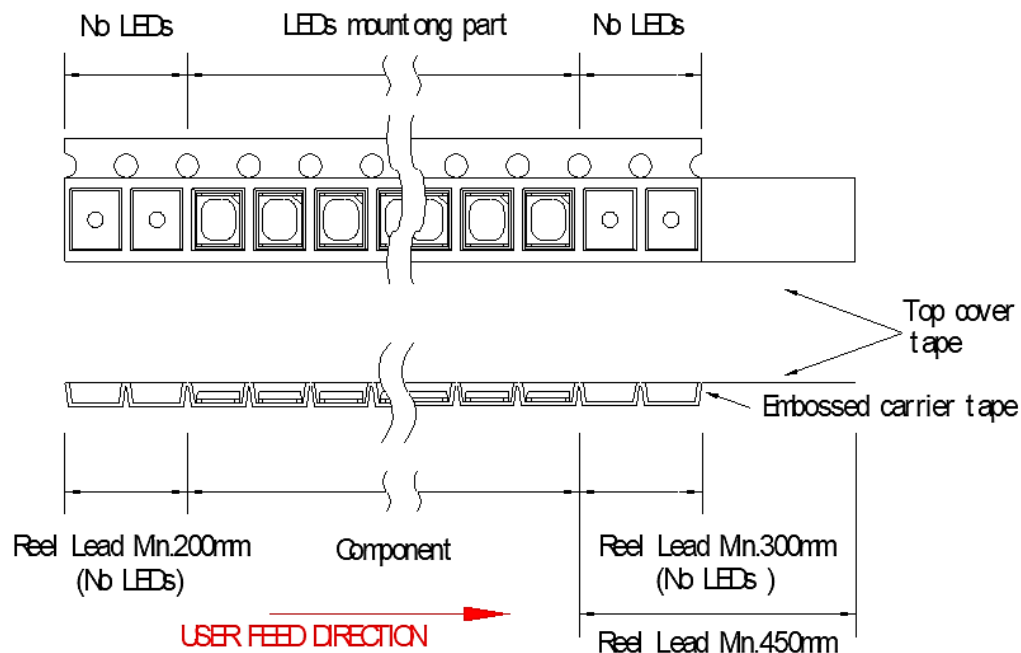
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Tape Dimension



Tape Leader and Trailer Dimension



Note: 2000 pcs / reel

Revision 1.1 Date: 05/25/23 Specifications are subject to change without notice.

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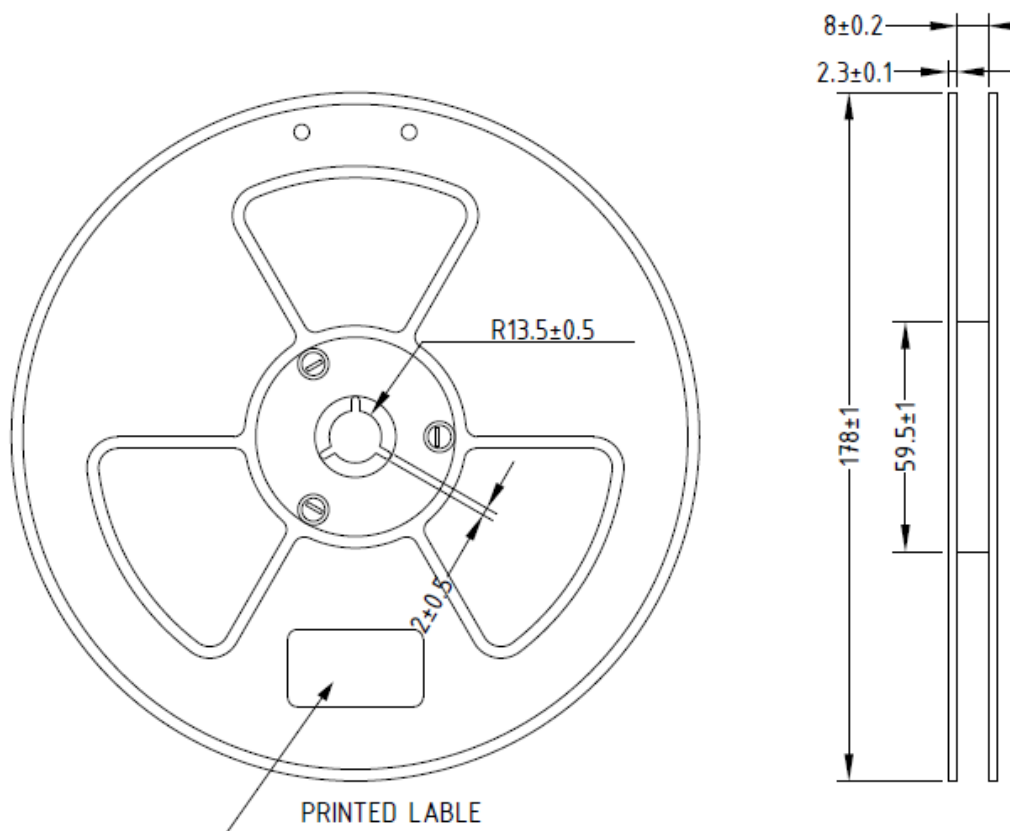


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Reel dimension



Note: Baking is required under the following conditions:

The pack has been opened for more than four weeks.

Baking recommended conditions:

60 ± 5 °C for 20 hours.