American Opto Plus LED Corp.

L955T-UPGC

3.5 x 2.8 x 0.7mm Green PLCC-2

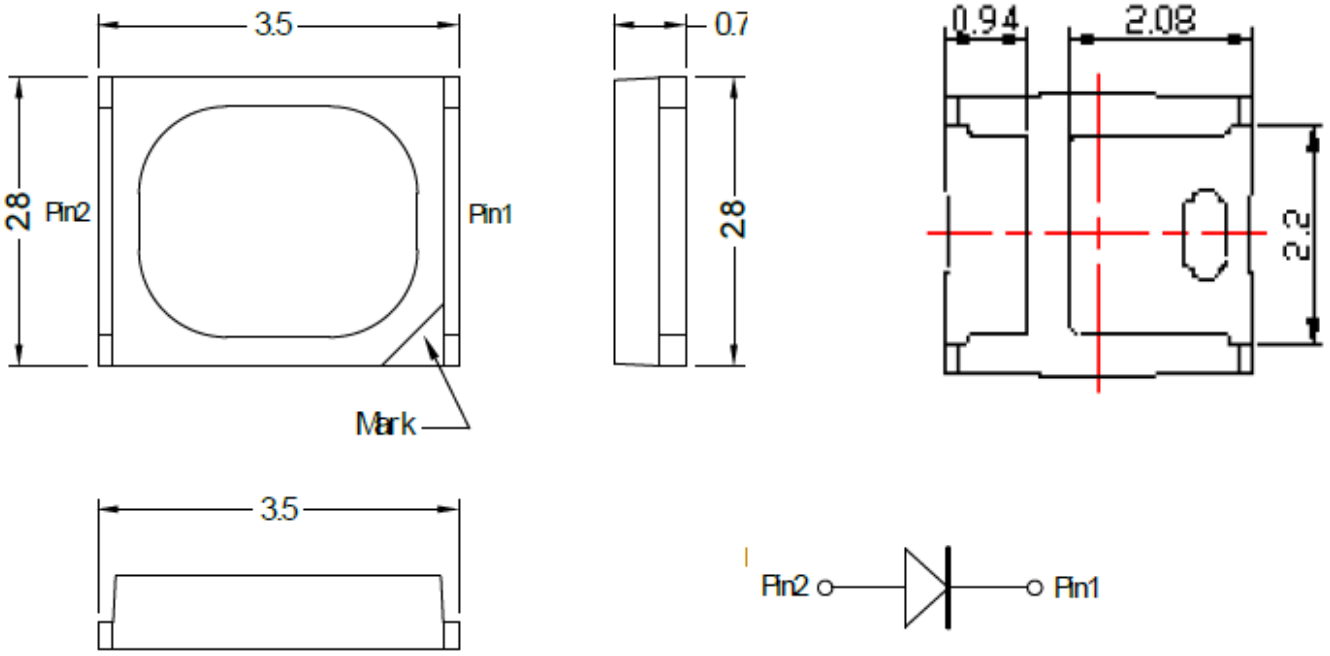
MAIN FEATURES:

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

FEATURES:

- High Luminous Output Pure-Green SMD LED (InGaN)
- PLCC-2 3.5 x 2.8mm standard package with heat sink
- High reliability package
- Wide viewing angle 120 degree
- Available in 8mm carrier tape on 7 inch reel (2000 pieces)

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
3. Specification is preliminary

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ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	Max Rating	Unit
DC Forward Current	I_F	250	mA
Peak Pulsed Forward Current	I_{FP}	300	mA
Reverse Voltage	V_R	--	V
Junction Temperature	Tj	125	°C
Junction/ Solder Point	$R_{th\ Js}$	75	°C/W
Junction/ Ambient	$R_{th\ Ja}$	80	°C/W
Power Dissipation	Pd	875	mW
Operating Temperature Range	T_{OPR}	-30 ~ +100	°C
Storage Temperature	T_{STG}	-40 ~ +100	°C
Solder Temperature	T_{SOL}	265°C for 10 sec	

IFP Conditions: Pulse Width ≤ 10msec and Duty ≤ 1/10

OPTICAL-ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F = 150mA	--	2.8	3.5	V
Luminous Intensity	I_v		5500	9000	12000	mcd
Luminous Flux	ΦV		--	27	--	lm
Dominant Wavelength	λd	I_F = 20mA	525	535	545	nm
Peak Wavelength	λp		--	535	--	nm
Spectral Half Width	$\Delta\lambda_{1/2}$		--	37		nm
Reverse Current	I_R	V_R=5V			50	μA

Notes: Luminous intensity tolerance is ±10%

Please refer to CIE 1931 Chromaticity Diagram

Version 1.0 Date: 06-10-2013 Specification is subject to change without notice

American Opto Plus LED Corp. 1206 E. Lexington Ave. , Pomona CA 91766 Tel: 909-465-0080 Fax: 909-465-0130 www.aopled.com

LUMINOUS INTENSITY BIN TABLE

IF=150mA

Rank Name	Min (mcd)	Max (mcd)	Cond.
W	5500	7200	I_F=150mA
X	7200	9300	
Y	9300	12000	

Note: Tolerance for each bin limit is ±10%

Color Bin Table

IF=150mA

Rank Name	Min (nm)	Max (nm)	Cond.
1	525	530	I_F=150mA
2	530	535	
3	535	540	
4	540	545	

Note: Tolerance for each bin limit is ±10%

Notes:

1. One delivery will include several color ranks and I_v ranks of products.
   The quantity-ratio of the different rank is decided by AOP.
2. Bin Name typed on the Label: IV RANK + Color Rank.
   For Example, **BIN X2 Means IV: 7200-9300mcd**, **Color: 530nm~535nm**
3. Static Electricity or Surge Voltage damages the LEDs.
   It is recommended to use a wrist band or Anti-Electrostatic glove when handling the LEDs.
4. AOP has the right to update the information without notice.
   Please double confirm the Spec details before placing an order

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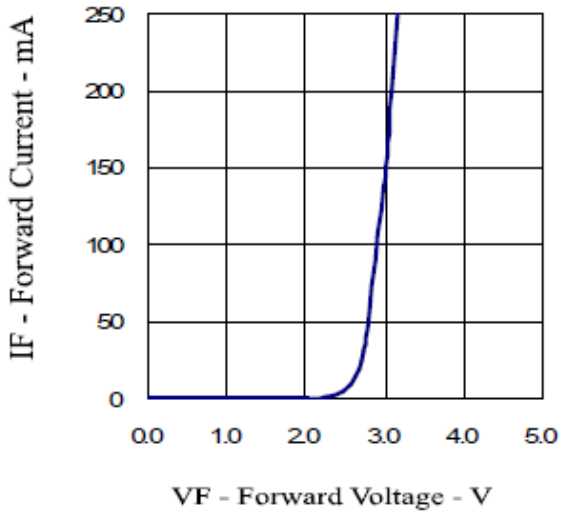
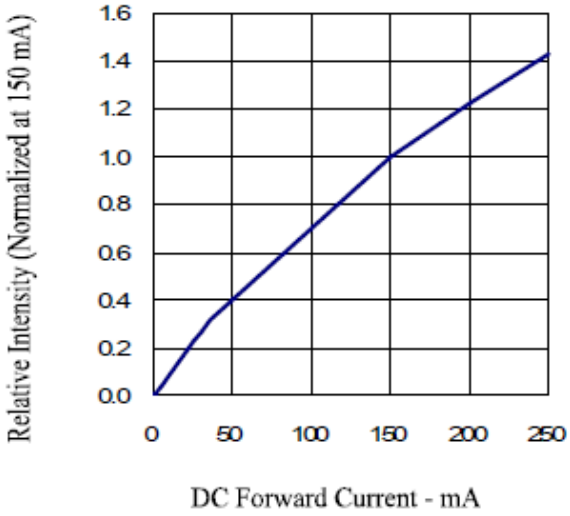
ELECTRICAL-OPTICAL CHARACTERISTICS

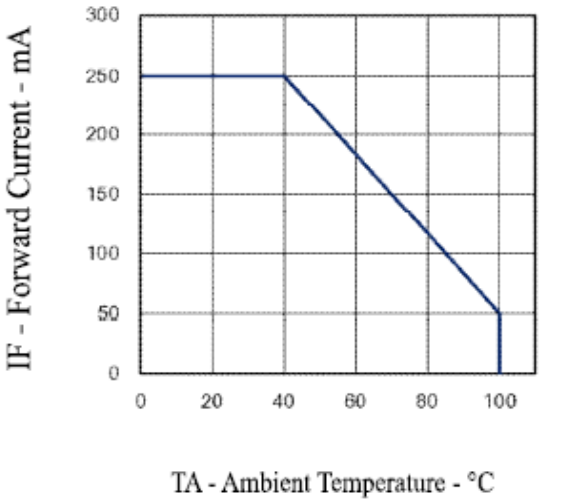
Forward Current vs. Forward Voltage



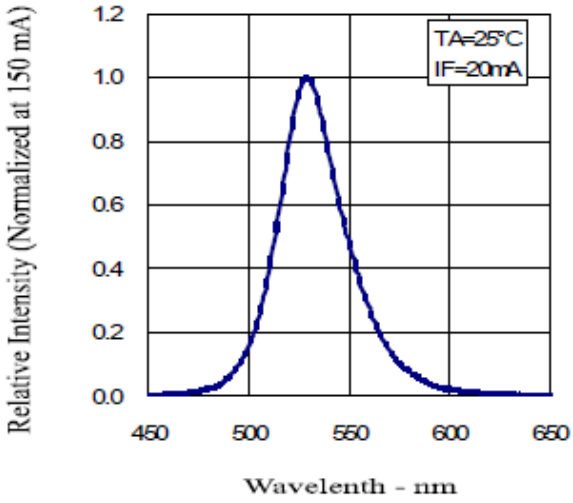
Relative Intensity vs. Forward Current



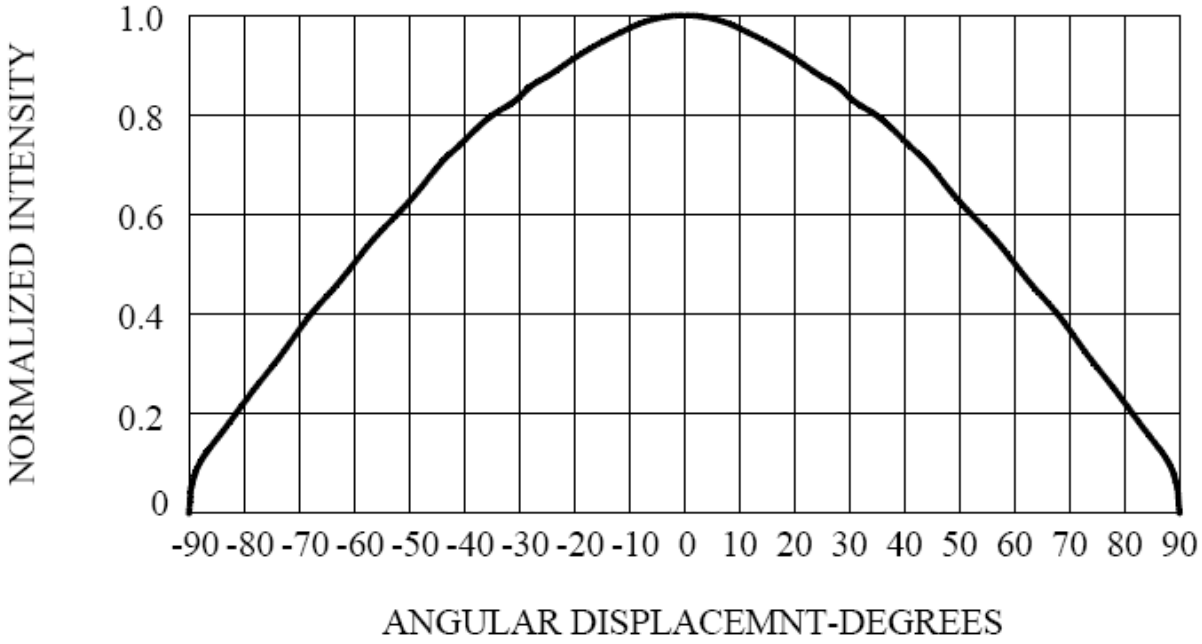
Forward Current vs. Ambient Temperature



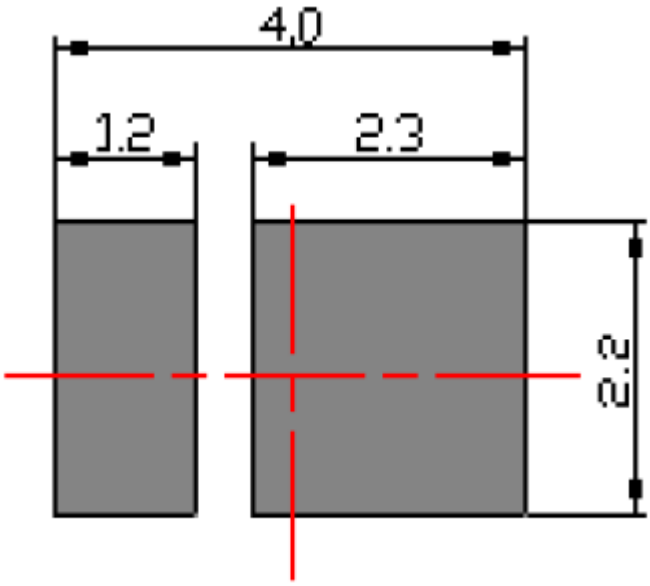
Relative Intensity vs. Wavelength



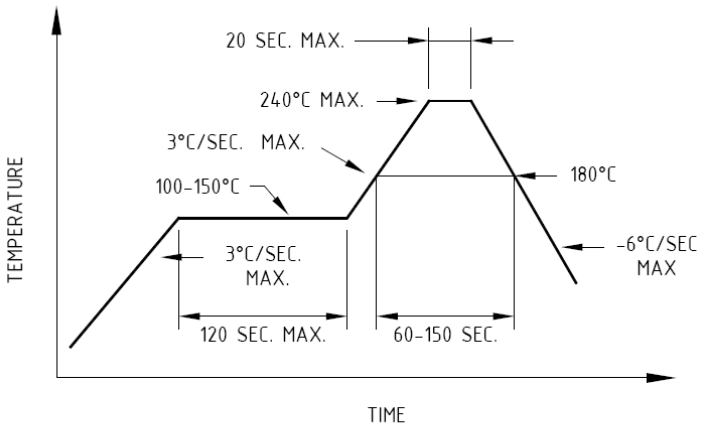
RADIATION PATTERN



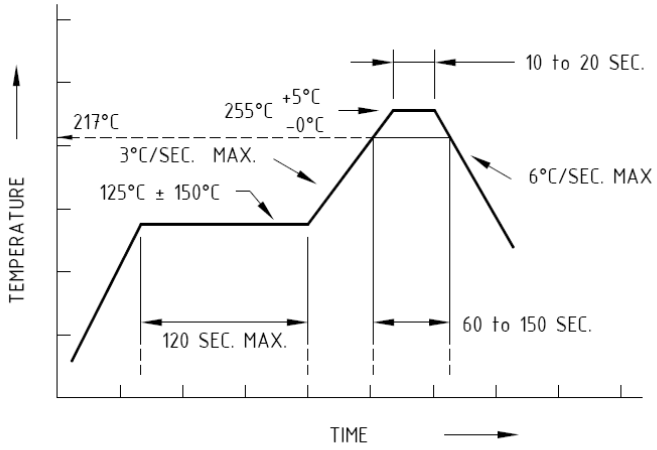
RECOMMENDED SOLDERING PAD PATTERN



SOLDERING CONDITIONS:



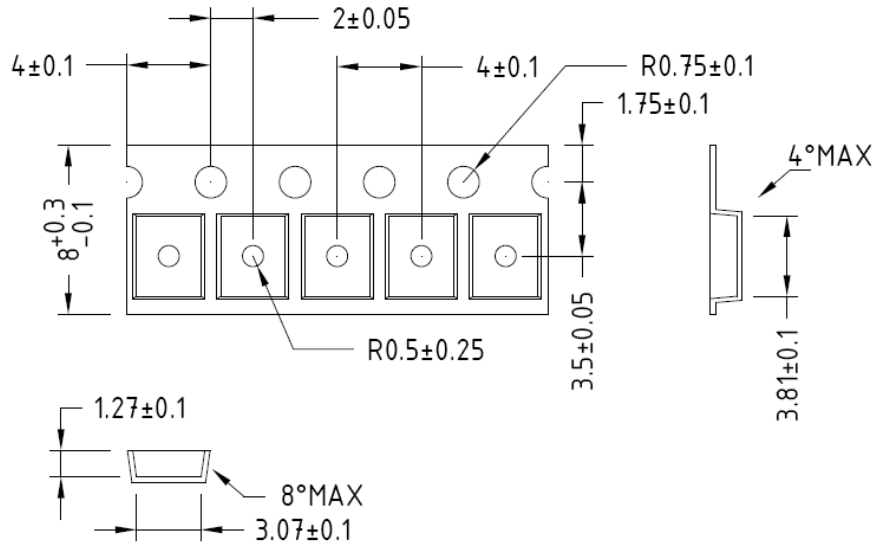
Recommended reflow soldering profile



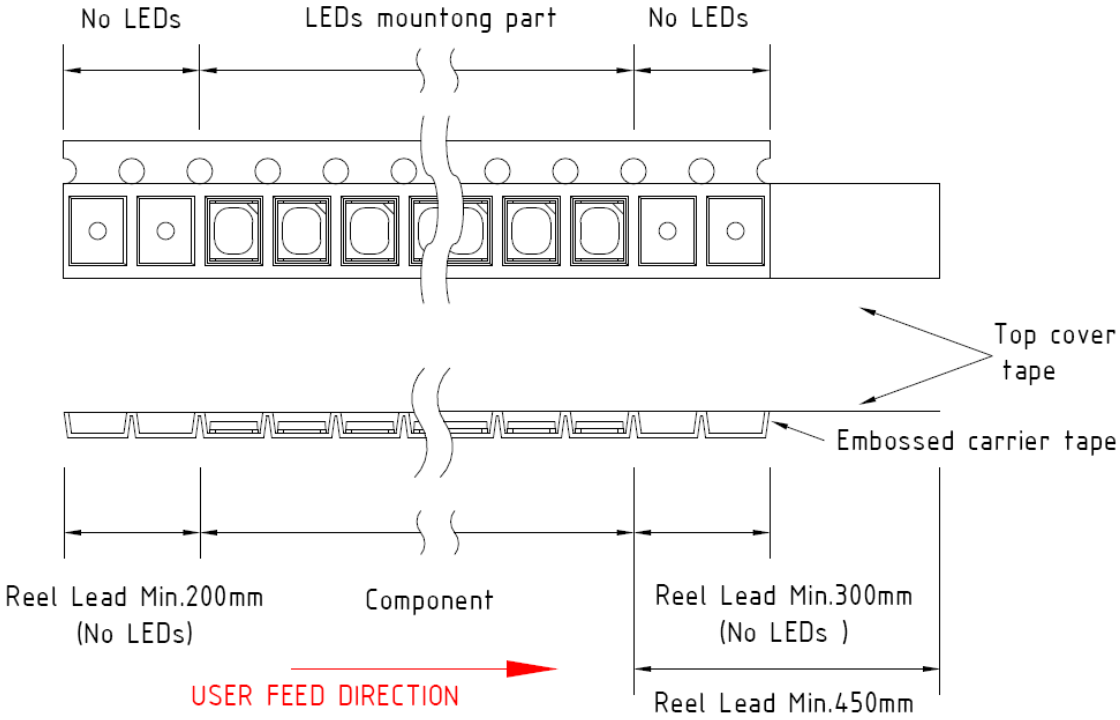
Recommended Pb-free reflow soldering profile

- 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 no put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.

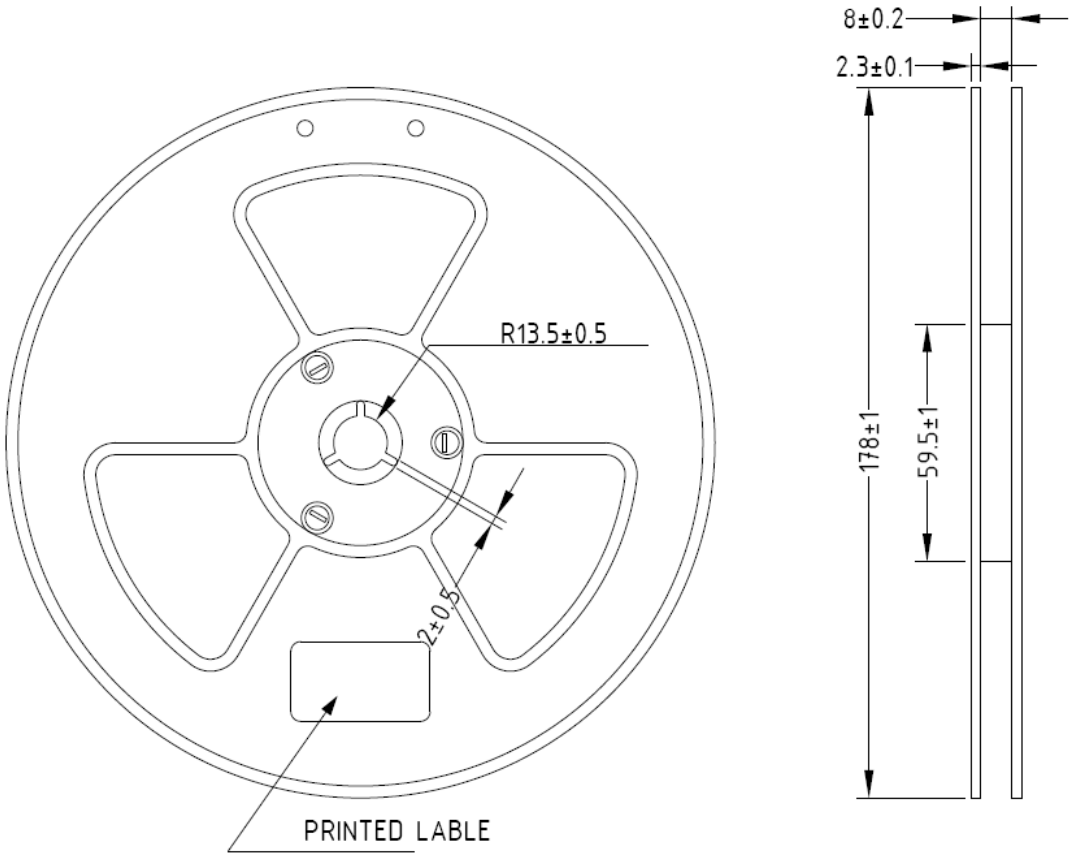
TAPE DIMENSIONS



TAPE LEADER AND TRAILER DIMENSION



REEL DIMENSION



Note: Baking is required under the following conditions:

The pack has been open for more than four weeks.

Baking recommended conditions.

60 ± 5 °C for 20 hours.