

# Opto Plus LED Corp

## OPS-L955MPGC-Z Series

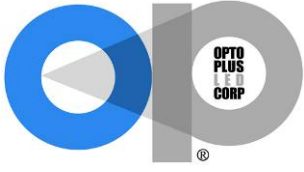
3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

### ● EDIT HISTORY

Version A: Sep. 27, 2011

New color data sheet.

Manufacture	Examination	Approving



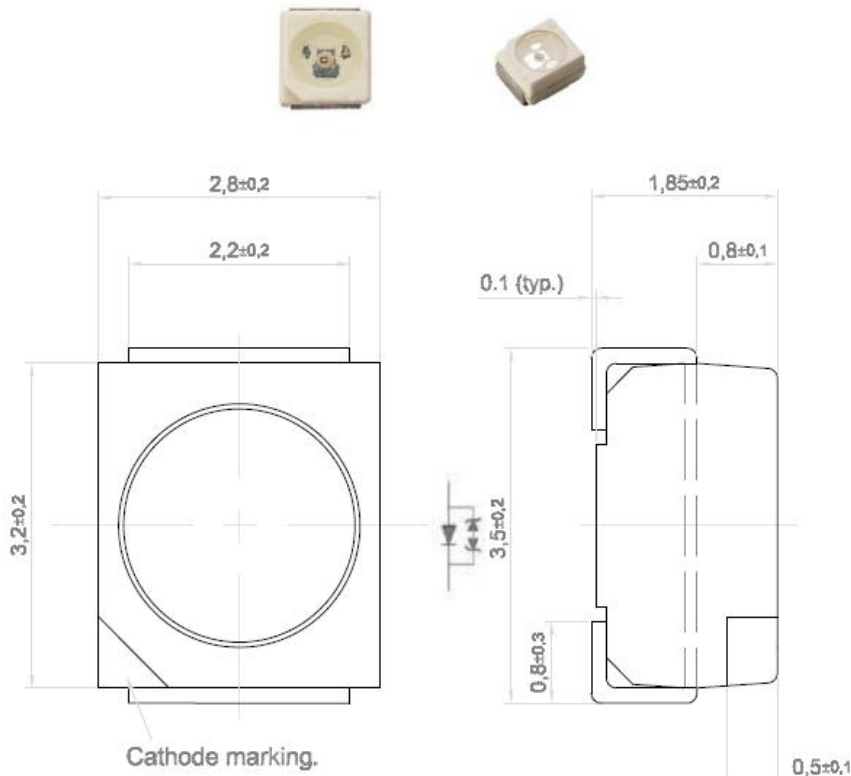
# Opto Plus LED Corp OPS-L955MPGC-Z Series

3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

## ● FEATURES

- ◆ 3.2 x 2.8 x 1.8 mm super bright SMD.
- ◆ Compatible to IR-reflow soldering and TTW soldering.

## ● PACKAGE DIMENSIONS



### NOTES:

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

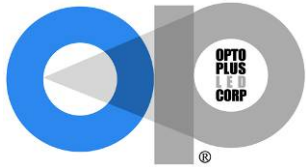
DICE MATERIAL	LIGHT COLOR
InGaN	Pure Green

RoHS Compliance



Pb free.





# Opto Plus LED Corp

## OPS-L955MPGC-Z Series

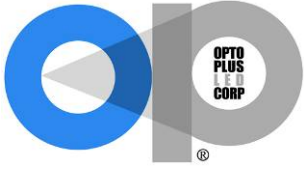
3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

### ● ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Max Rating	Unit
DC Forward Current	I <sub>F</sub>	20	mA
Peak Forward Current (tp ≤ 10μS, duty cycle =0.005)	I <sub>PF</sub>	100	mA
ESD Threshold (HBM)		2000	V
Reverse Voltage	V <sub>R</sub>	Not for reverse bias	V
LED Junction Temperature		125	°C
Operating Temperature Range	T <sub>OPR</sub>	-40 to +100	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +100	°C
Power Dissipation (at room temperature)	P <sub>D</sub>	80	mW

#### Notes:

- 1) Luminous intensity is measured with an accuracy of ±11%
- 2) Forward voltage is measure with an accuracy of ±0.1V
- 3) Dominant wavelength is measured with an accuracy of ±1nm
- 4) The parts above come in a standard quantity of 2000pcs/reel
- 5) Each reel contains only one wavelength bin
- 6) Specifications are subject to change without notice



# Opto Plus LED Corp

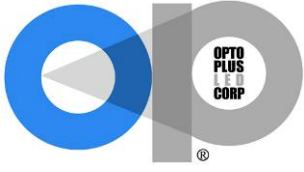
## OPS-L955MPGC-Z Series

3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

### ● BIN INFORMATION – OPS-L955MPGC-Z

Symbol	IV		VF(Optional)		$\lambda_D$	
Parameter	Luminous Intensity		Forward Voltage		Dominant Wavelength	
Condition	IF = 20mA					
Unit	mcd		V		nm	
Binning	Grade	Range	Grade	Range	Grade	Range
	V1	715 – 900	Full	3.0 – 3.6	Full	520 – 535
	V2	900 – 1125			A	520 – 525
	W1	1125 – 1400			B	525 – 530
	W2	1400 – 1800			C	530 – 535

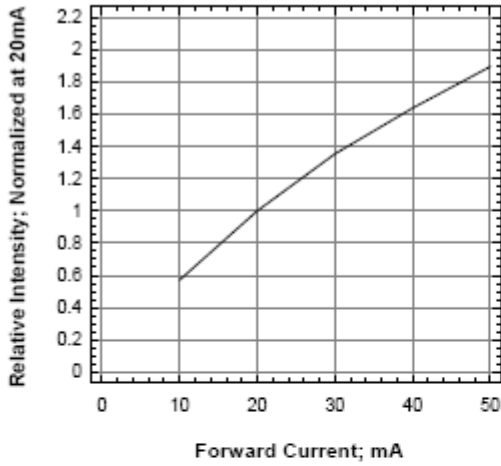
For OPS-L955XC-Z series, Vf @ 20mA: Min.3.0V Typ.3.2V Max.3.6V



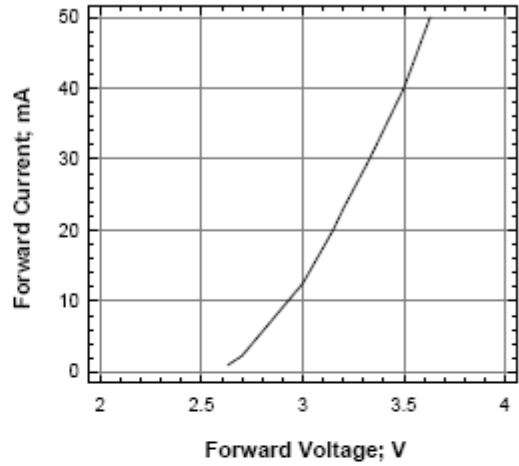
# Opto Plus LED Corp OPS-L955MPGC-Z Series

3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

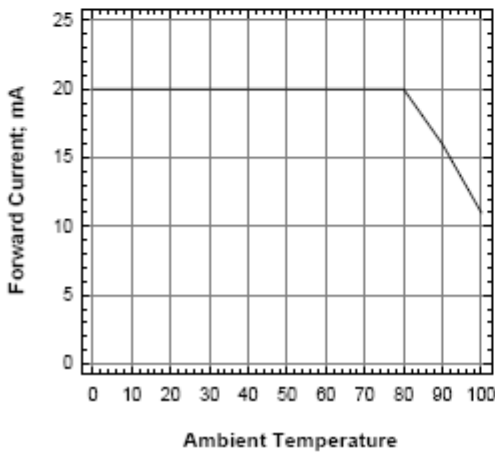
Relative Intensity Vs Forward Current



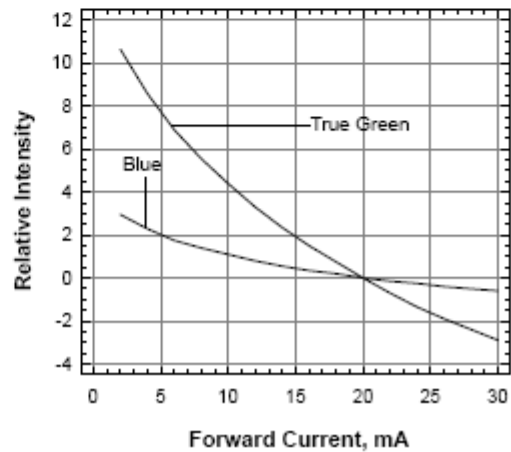
Forward Voltage Vs Forward Current



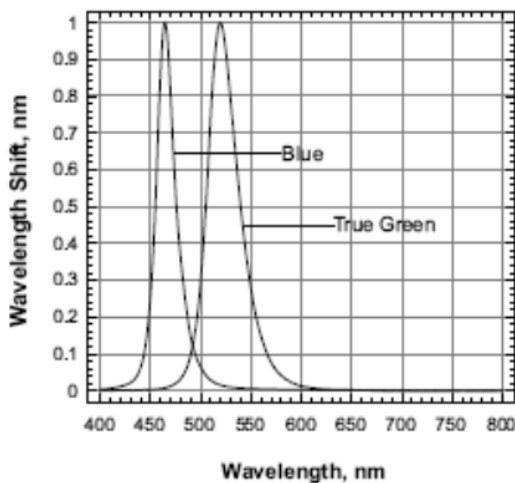
Maximum Current Vs Ambient Temperature



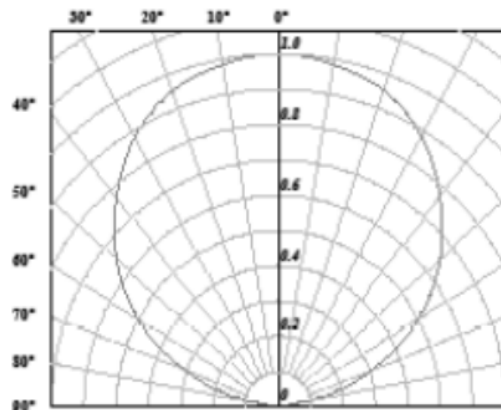
Dominant Wavelength Shift Vs Forward Current

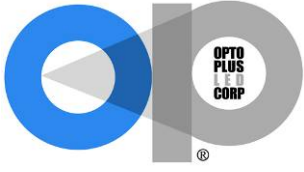


Relative Intensity Vs Wavelength



Radiation Pattern

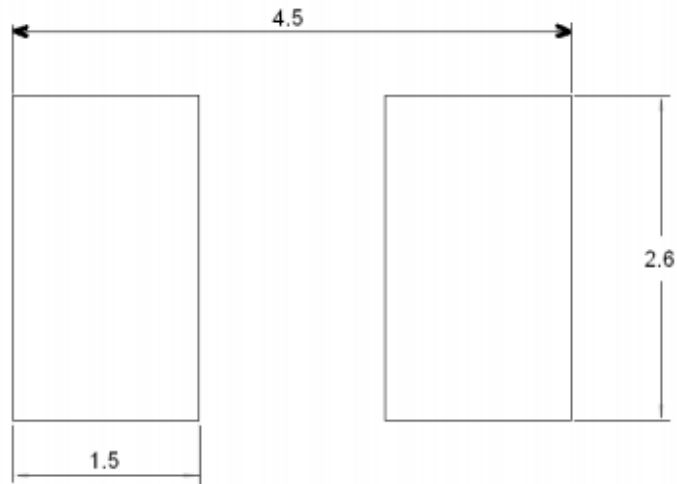




# Opto Plus LED Corp OPS-L955MPGC-Z Series

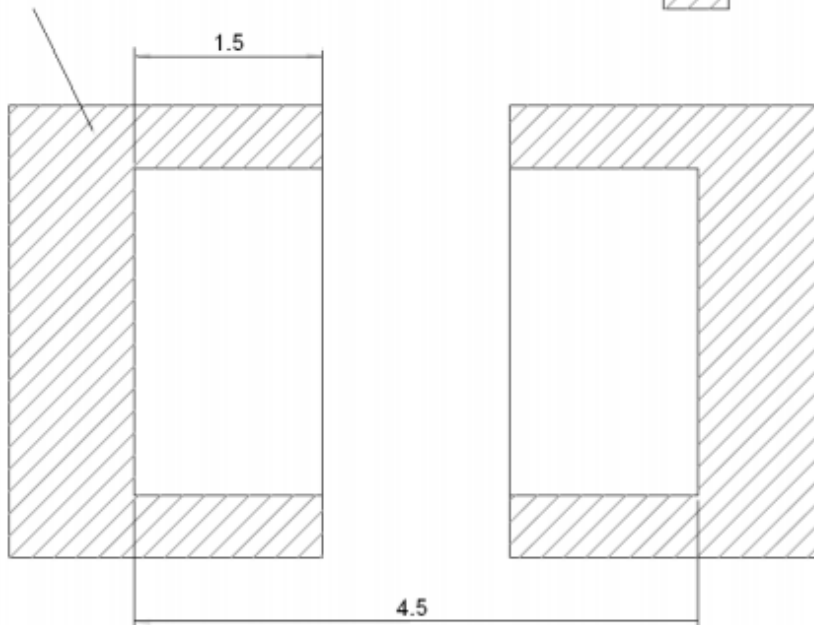
3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

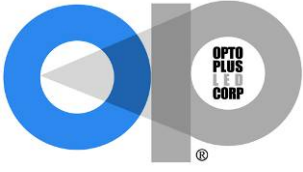
## RECOMMENDED SOLDER PAD



Additional Cu area for improved heat dissipation; > 16 mm sq.

 Solder resist

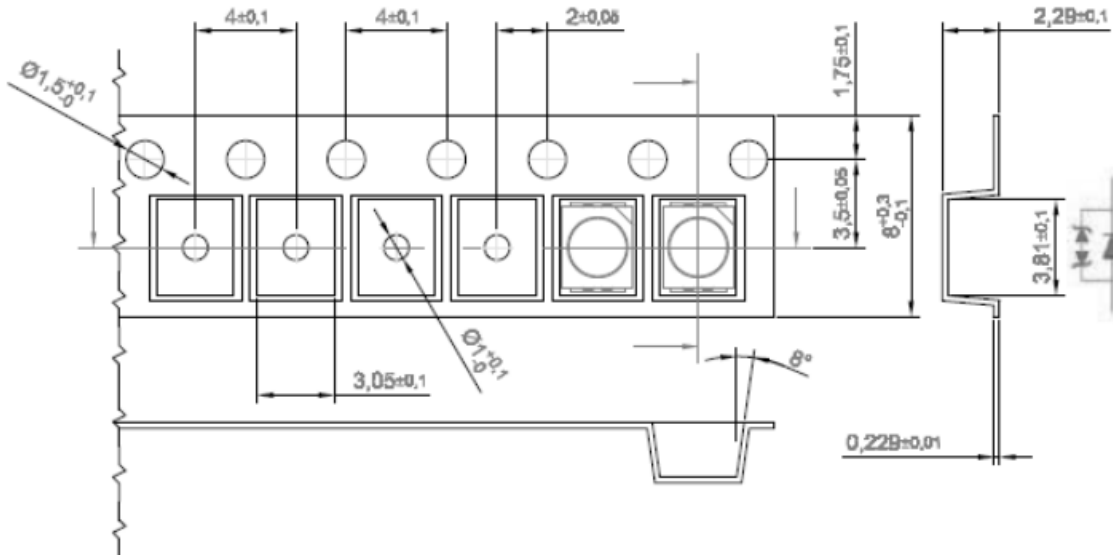




# Opto Plus LED Corp OPS-L955MPGC-Z Series

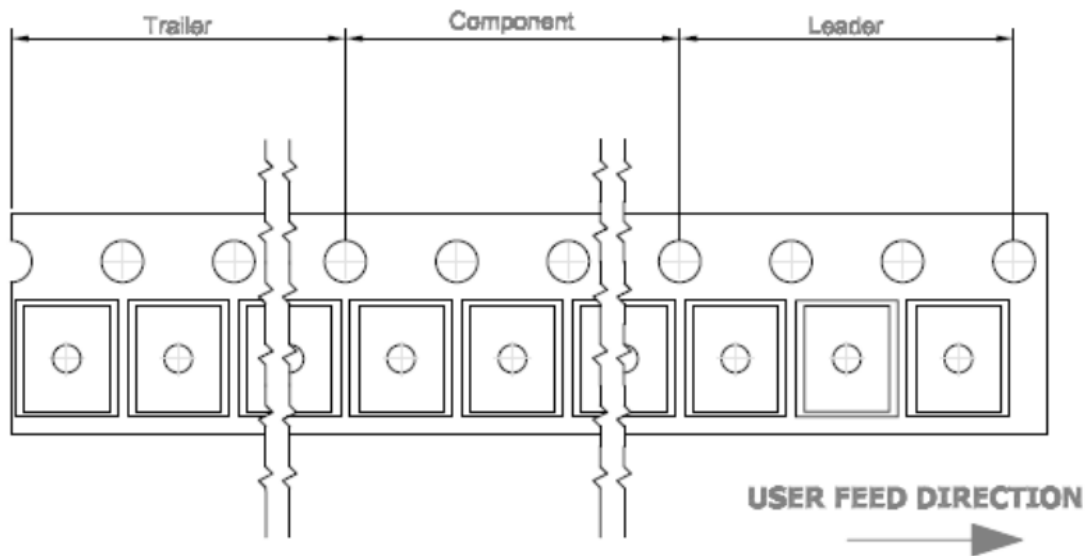
3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

## TAPING SPECIFICATIONS

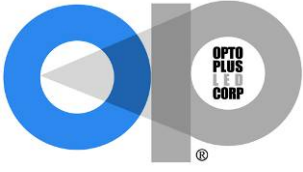


Notes: Reel packaging is 2000pcs/reel. Reel diameters are 180mm.

## TAPING ORIENTATION



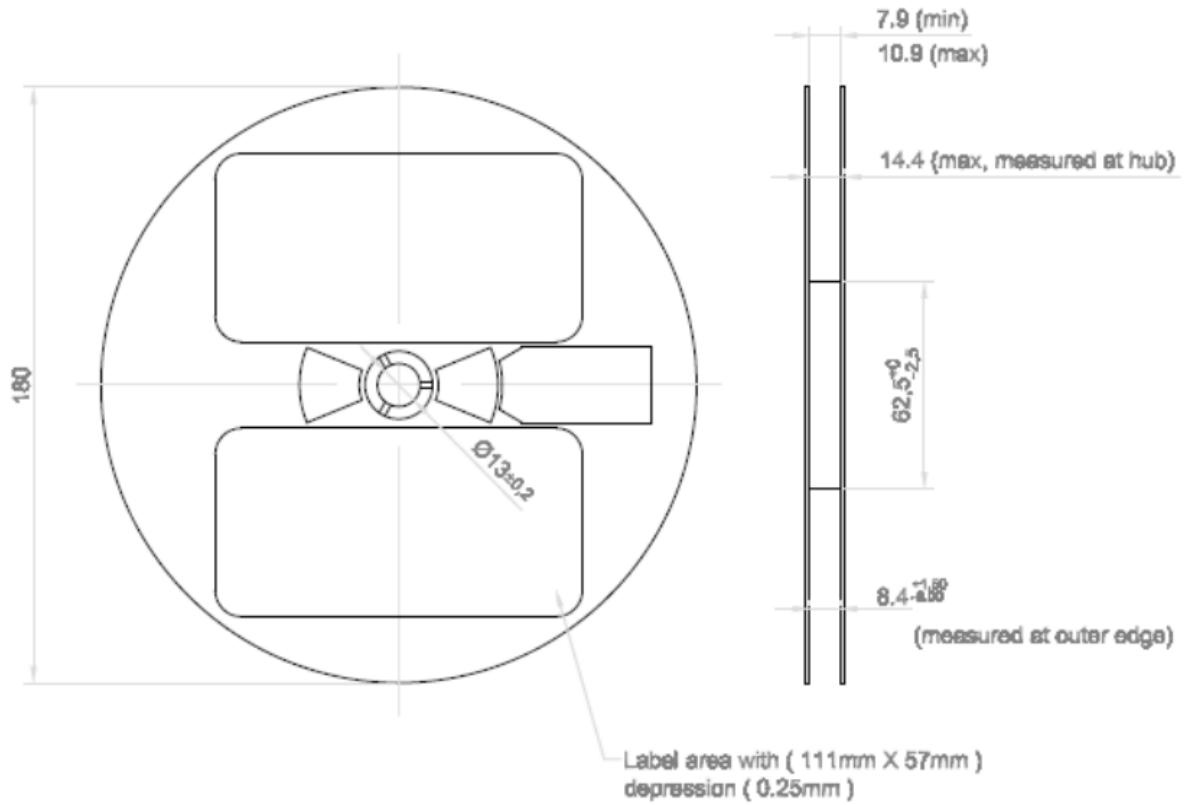
- Notes:
- 1) 200mm min for  $\phi 180$  and  $\phi 330$  reel
  - 2) 480mm min for  $\phi 180$  reel
  - 3) 960mm min for  $\phi 330$  reel



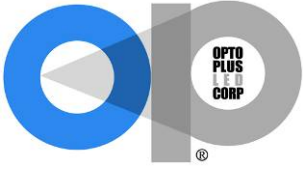
# Opto Plus LED Corp OPS-L955MPGC-Z Series

3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

## PACKAGING SPECIFICATION



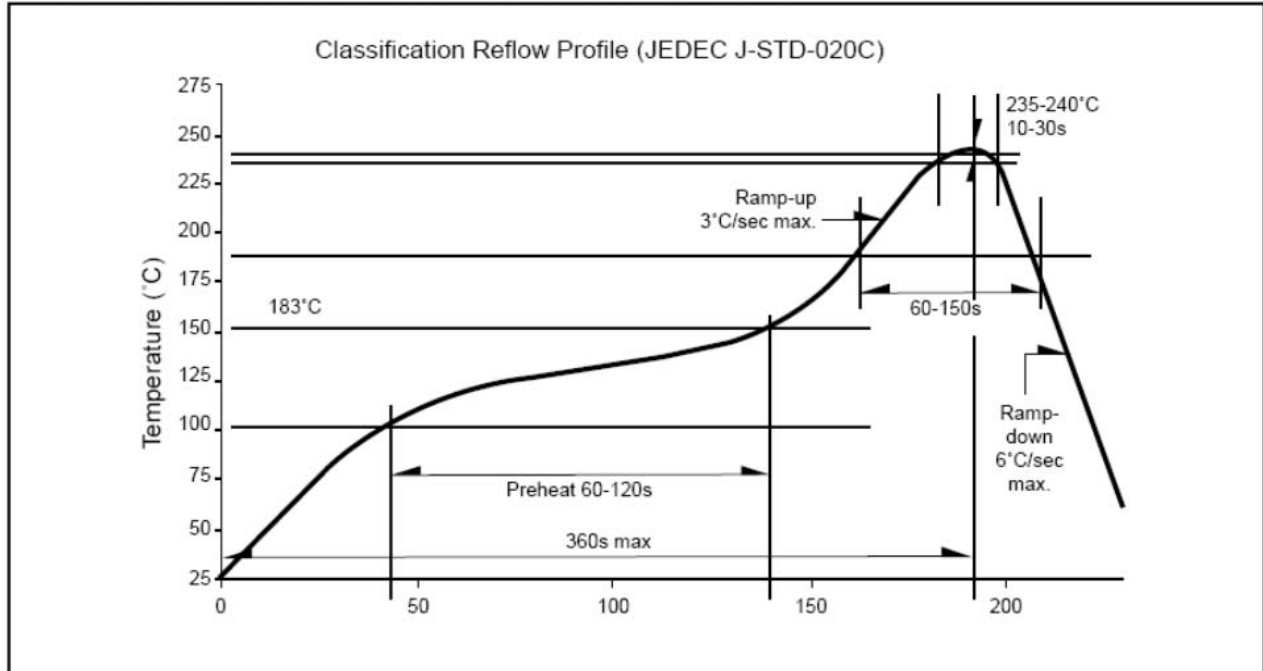




# Opto Plus LED Corp OPS-L955MPGC-Z Series

3.2 x 2.8 x 1.8 mm ULTRA BRIGHT SMD

## RECOMMENDED Sn-PB IR-Reflow Soldering Profile



## RECOMMENDED Pb-Free Soldering Profile

