



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



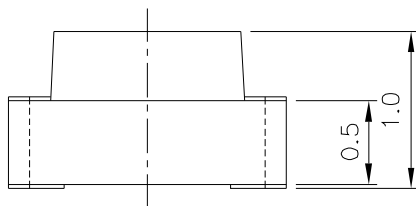
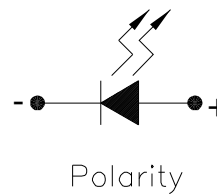
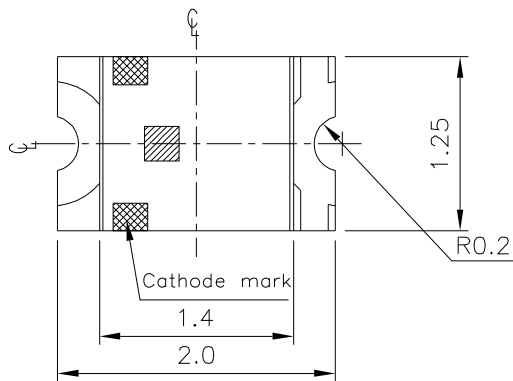
Features

- Fit automatic placement equipment.
- Fit Compatible with infrared and vapor phase reflow solder process.
- Pb-free.
- RoHS compliant.

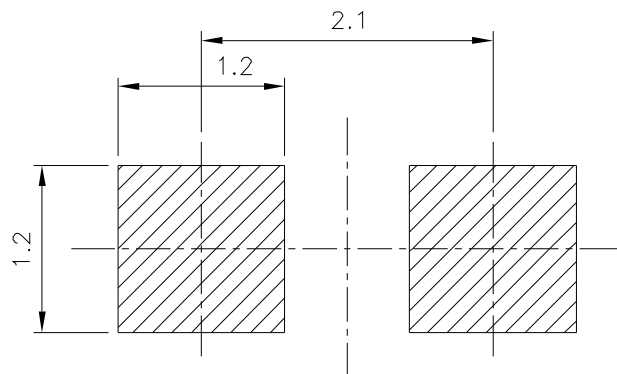
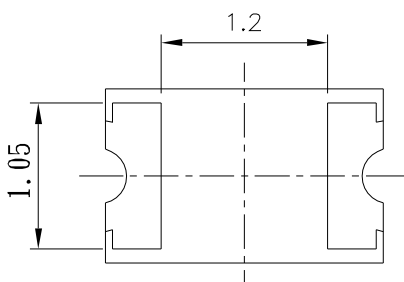
Descriptions

- For higher packing density .
- For minature applications .
- Yellow Diffusion Lens .
- Chip material : InGaN .
- Emitting color : White .

Package Outline Dimensions



For reflow soldering (Propose)



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$,Unit = mm



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	25	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +90	°C
Electrostatic Discharge	ESD	150	V
Power Dissipation	P _d	110	mW
Peak Forward Current (Duty 1/10 @1KHz)	I _{FP}	100	mA
Soldering Temperature	T _{sol}	Reflow Soldering : 260 °C for 10 sec Hand Soldering : 350 °C for 3 sec.	

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v	28.5	-----	72.0	med	I _F =5mA
Viewing Angle	2θ 1/2	-----	150	-----	deg	
Forward Voltage	V _F	2.70	-----	3.15	V	
Reverse Current	I _R	-----	-----	50	μA	V _R =5V

Bin Range Of Luminous Intensity & Forward Voltage

Symbol	Bin Code	Min.	Max.	Unit	Condition
I _v	N	28.5	45.0	med	I _F =5mA
	P	45.0	72.0		
V _F	15	2.70	2.85	V	
	16	2.85	3.00		
	17	3.00	3.15		

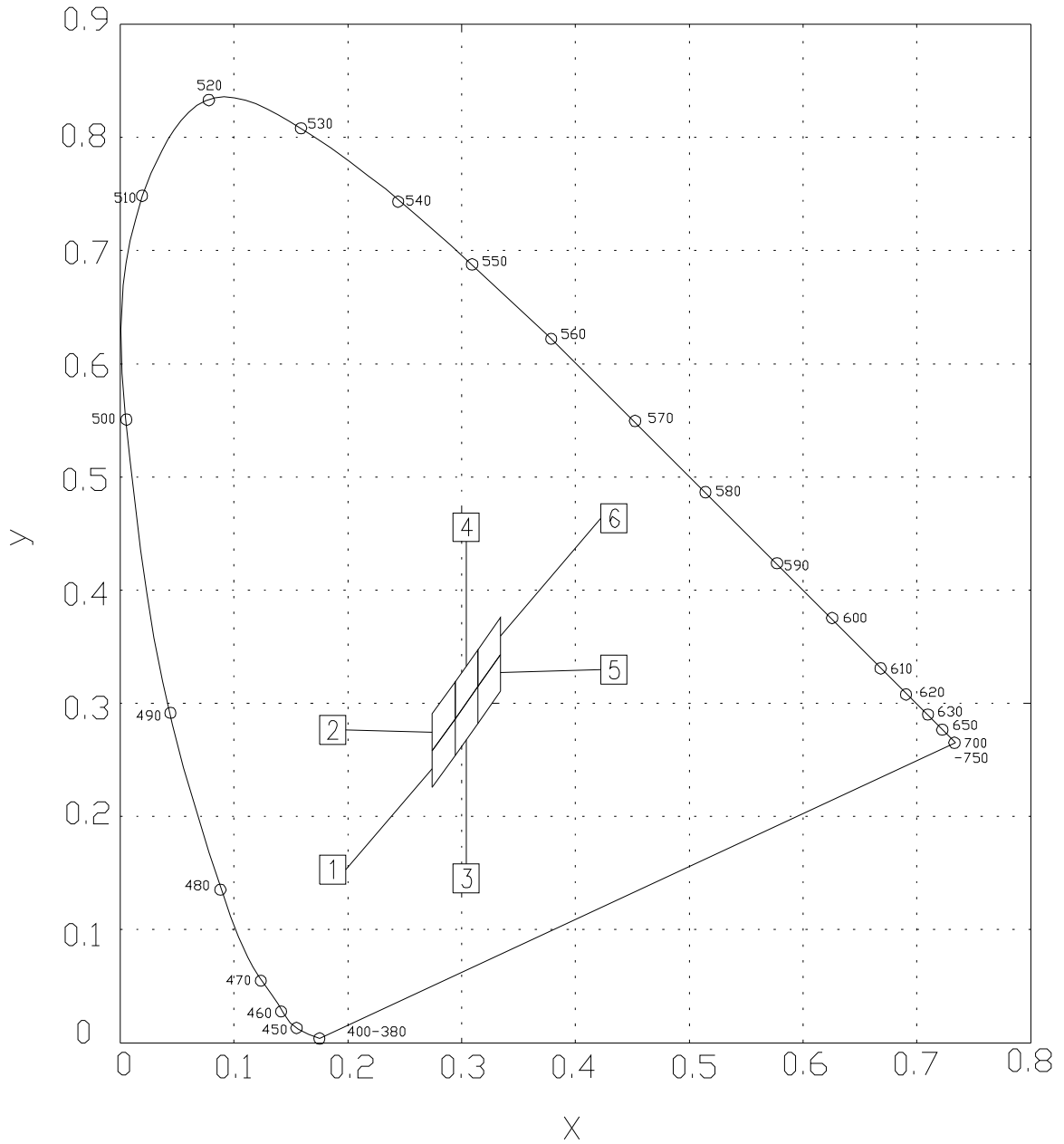
Notes:

- 1.Tolerance of Luminous Intensity ±10%
- 2.Tolerance of Forward Voltage ±0.1V

Chromaticity Coordinates Specifications for Bin Grading

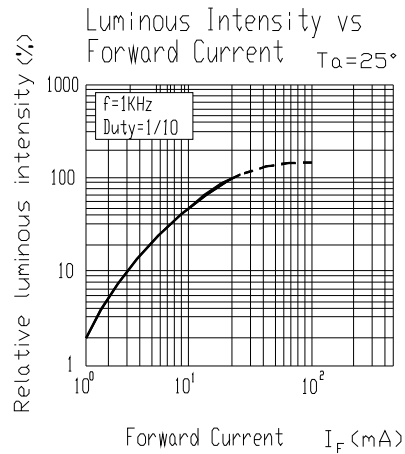
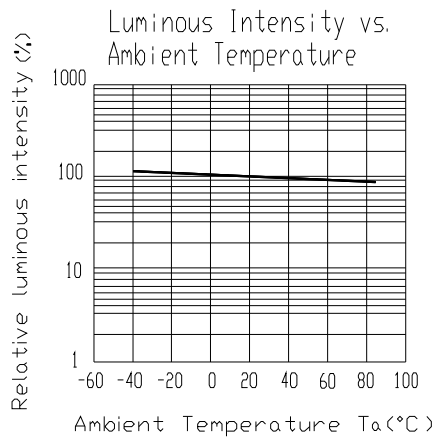
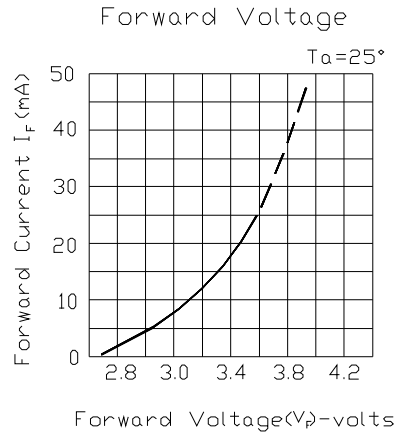
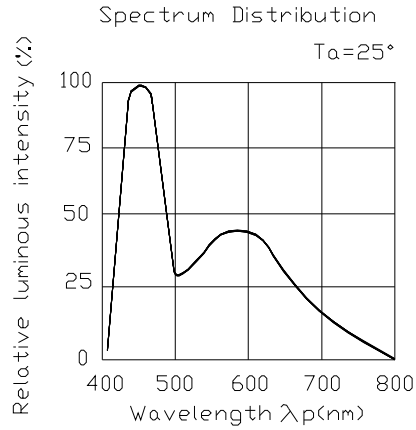
Groups	Bin Code	CIE_x	CIE_y	Condition
A	1	0.274	0.226	I _F =5mA
		0.274	0.258	
		0.294	0.286	
		0.294	0.254	
	2	0.274	0.258	
		0.274	0.291	
		0.294	0.319	
		0.294	0.286	
	3	0.294	0.254	
		0.294	0.286	
		0.314	0.315	
		0.314	0.282	
	4	0.294	0.286	
		0.294	0.319	
		0.314	0.347	
		0.314	0.315	
	5	0.314	0.282	
		0.314	0.315	
		0.334	0.343	
		0.334	0.311	
	6	0.314	0.315	
		0.314	0.347	
		0.334	0.376	
		0.334	0.343	

CIE Chromaticity Diagram

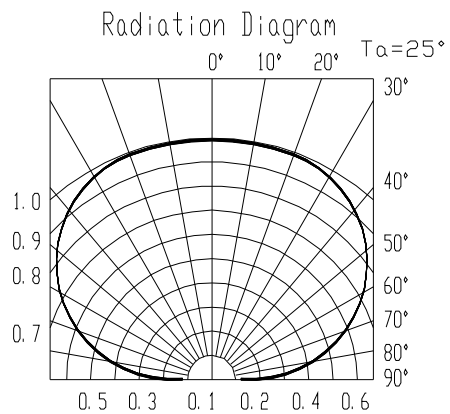
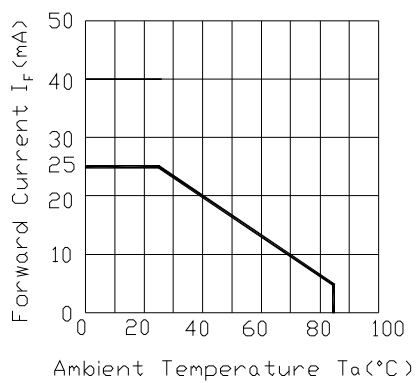


Specific binning requirements- please contact our home office

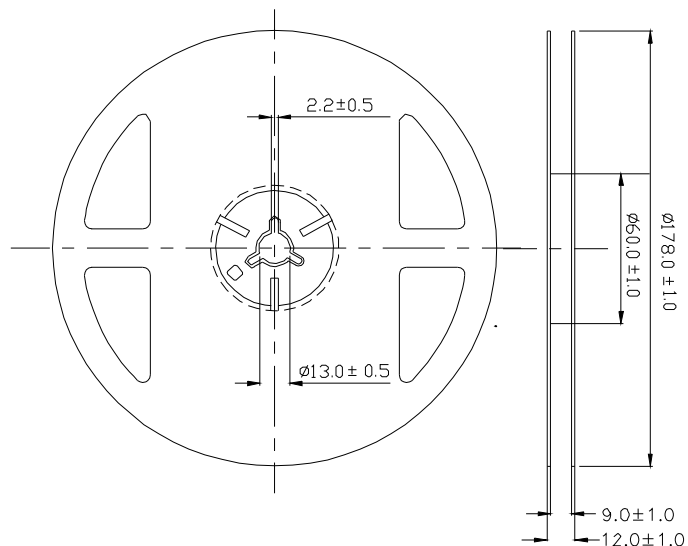
Typical Electro-Optical Characteristics Curves



Forward Current Derating Curve

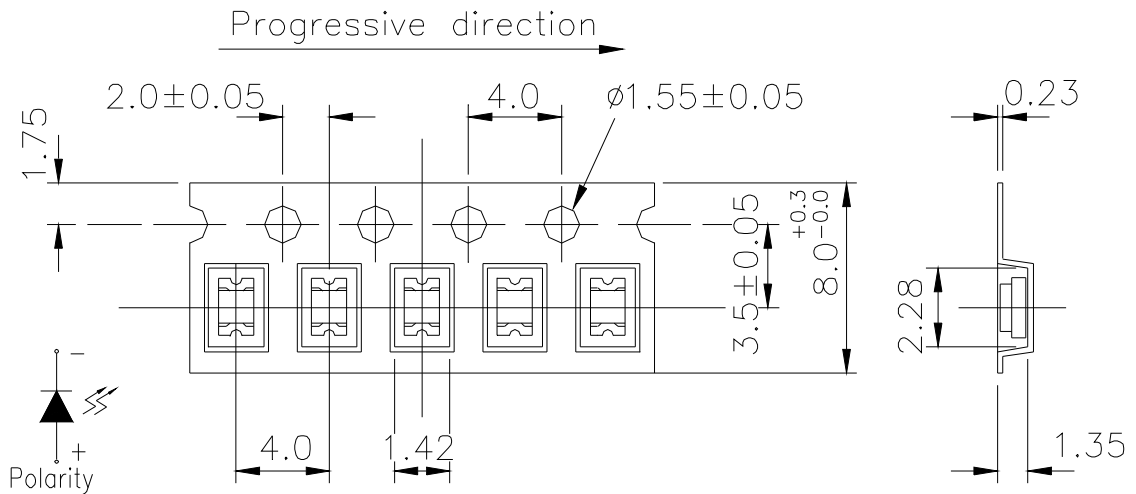


Reel Dimensions



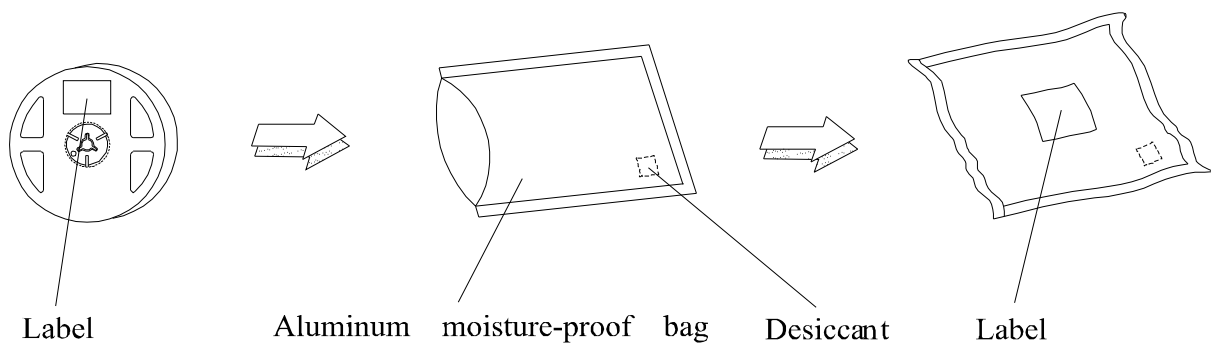
Note: The tolerances unless mentioned is ± 0.1 mm ,Unit = mm

Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel



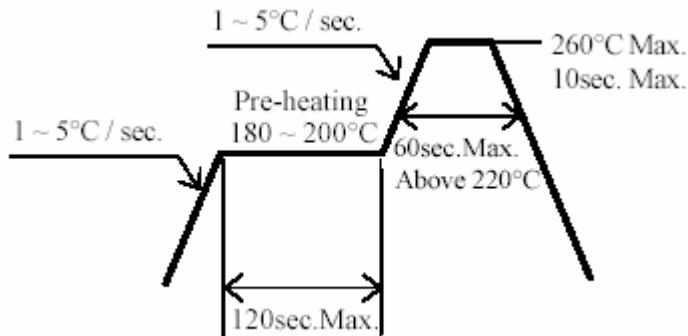
Note: The tolerances unless mentioned is ±0.1mm, Unit = mm

Moisture Resistant Packaging



Soldering Condition

1. Pb-free solder temperature profile



- 2. Reflow soldering should not be done more than two times.
- 3 When soldering, do not put stress on the LEDs during heating.
- 4 After soldering, do not warp the circuit board.

Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350°C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.