

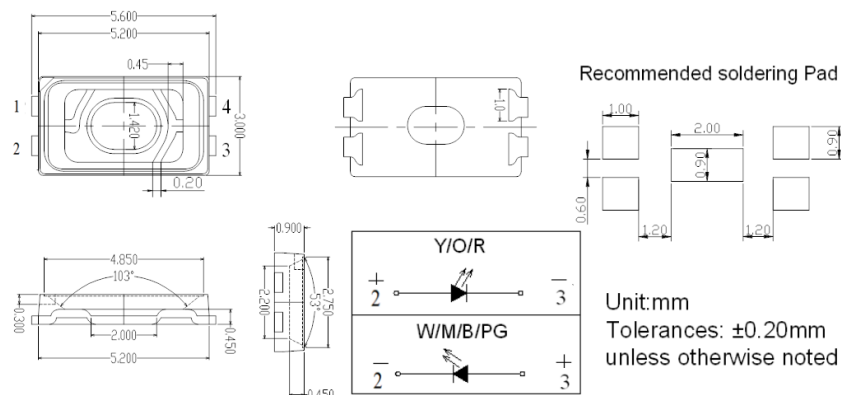
■Features

- Top view white LED (5.6x3.0x0.9mm)
- Super high brightness of surface mount LED
- Lead frame package with individual 4 pins
- ESD protection
- Compatible to IR reflow soldering.

■Applications

- General lighting
- Decoration lighting
- Indicator

■Outline Dimension



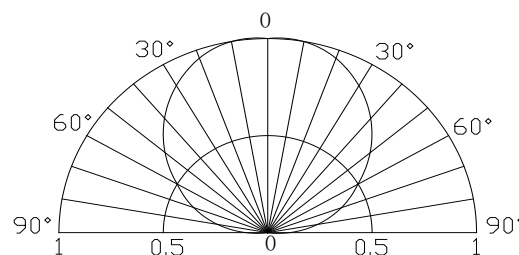
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
		W/M/B/PG	Y/R	
DC Forward Current	I _F	80	80	mA
Pulse Forward Current#	I _{FP}	150	150	mA
Reverse Voltage	V _R	5	5	V
Power Dissipation	P _D	288	208	mW
Operating Temperature	T _{opr}	-30 ~ +85		°C
Storage Temperature	T _{stg}	-40~ +100		°C
Lead Soldering Temperature	T _{sol}	260°C/10sec		-

#Pulse width Max.10ms Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Part Number	Color			V _F (V)*			I _R (μA)	Φ _v (lm)*			CCT(K)\Wd(nm)*			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I _F =60mA			V _R =5V	I _F =60mA						
OSW35630C1D-60mA	Cool White	W		2.8	3.1	3.6	10	20	22	-	CCT:5000~6000K			120
OSW45630C1D-60mA	Pure White	W		2.8	3.1	3.6	10	20	22	-	CCT:6000~7000K			120
OSM55630C1D-60mA	Warm White	M	■	2.8	3.1	3.6	10	18	20	-	CCT:2800~3500K			120
OSB45630C1D-60mA	Blue	B	■	2.8	3.1	3.6	10	2	4	-	455	460	470	120
OSG55630C1D-60mA	Pure Green	PG	■	2.8	3.1	3.6	10	10	15	-	520	525	530	120
OSY55630C1D-60mA	Yellow	Y	■	1.8	2.1	2.6	10	4	6	-	585	590	595	120
OSR55630C1D-60mA	Red	R	■	1.8	2.1	2.6	10	4	6	-	620	625	630	120

*1 Tolerance of measurements of chromaticity coordinate is ±10%

*2 Tolerance of measurements of dominant wavelength is ±1nm

*3 Tolerance of measurements of luminous flux is ±15%

*4 Tolerance of measurements of forward voltage is ±0.1V

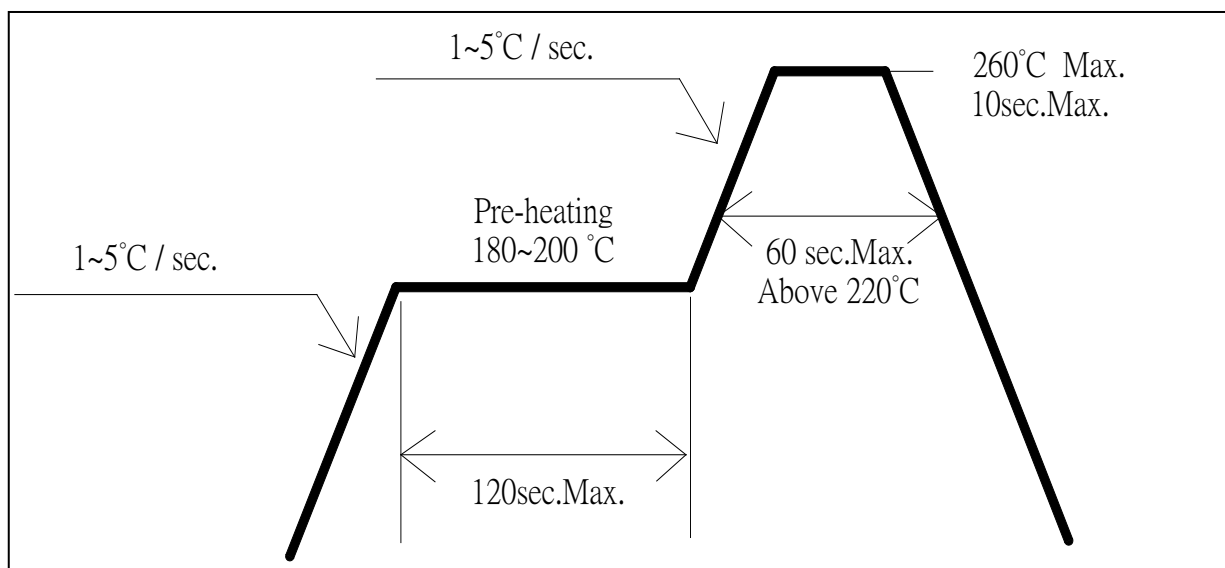
*5. Don't drive at rated current more than 5s without heat sink for Power Top H emitter series.



■ Soldering Conditions

Reflow Soldering		Hand Soldering	
Pre-Heat	180 ~ 200°C	Temperature Soldering time	350°C Max. 3 sec. Max. (one time only)
Pre-Heat Time	120 sec. Max.		
Peak Temperature	260°C Max.		
Dipping Time	10 sec. Max.		
Condition	Refer to Temperature-profile		

• Reflow Soldering Condition (Lead-free Solder)



*Recommended soldering conditions vary according to the type of LED

*Although the recommended soldering conditions are specified in the above table, reflow, or hand soldering at the lowest possible temperature is desirable for the LEDs.

*A rapid-rate process is not recommended for cooling the LEDs down from the peak temperature.

• All SMD LED products are pb-free soldering available.

• Occasionally there is a brightness decrease caused by the influence of heat or ambient atmosphere during air reflow. It is recommended that the User use the nitrogen reflow method.

• 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.

■ Package Model

Loaded Quantity: 3000pcs a Reel

