

3.5x2.8x0.7mm Power Top H Power LED

OSXX2835C1H-150mA

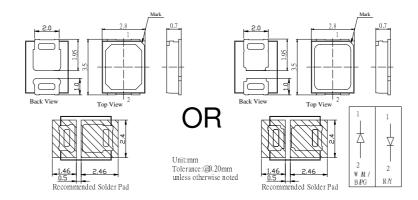
■Features

- · High luminous flux
- · Super energy efficiency
- · Long lifetime operation
- · Superior UV Resistance
- W5/W4/M5 Ra>80

■Applications

- Read lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- · Bollards / Security / Garden
- Traffic signaling / Beacons
- · Indoor / Outdoor commercial lights
- · Automotive ext

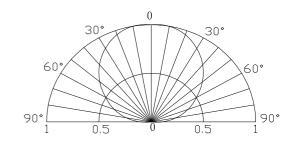
■Outline Dimension



■Absolute Maximum Rating

Term	C11	Valu	T I!4		
Item	Symbol	W/M/B/PG	Y/R	Unit	
DC Forward Current	I_F	200	200	mA	
Pulse Forward Current#	I_{FP}	250	250	mA	
Reverse Voltage	V_R	5	5	V	
Power Dissipation	P _D	800	600	mW	
Operating Temperature	Topr	-30 ~ +	$^{\circ}\!\mathbb{C}$		
Storage Temperature	Tstg	-40~ +1	$^{\circ}\!\mathbb{C}$		
Lead Soldering Temperature	Tsol	260°C/1	-		

Directivity



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

■Electrical -Optical Characteristics

(Ta=25°C)

(Ta=25°C)

			$V_{F}(V)^{*}$		$I_R(\mu A)$	Φv(lm)*		CCT(K)\Wd(nm)*			2θ1/2(deg)			
Part Number Color			Min.	Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.	
			I _F =150mA		V _R =5V	I _F =150mA								
OSW52835C1H-150mA	Cool White	W		3.0	3.3	4.0	10	55	60	-	CCT:9	9000~14	4000K	120
OSW42835C1H-150mA	White	W		3.0	3.3	4.0	10	55	60	-	CCT:	4500~7	000K	120
OSM52835C1H-150mA	Warm White	M		3.0	3.3	4.0	10	50	55	-	CCT:	2800~4	500K	120
OSB42835C1H-150mA	Blue	В		3.0	3.3	4.0	10	6	10	-	455	460	470	120
OSG52835C1H-150mA	Pure Green	PG		3.0	3.3	4.0	10	25	30	-	520	525	530	120
OSY52835C1H-150mA	Yellow	Y		2.0	2.3	3.0	10	10	15	-	585	590	595	120
OSR52835C1H-150mA	Red	R		2.0	2.3	3.0	10	10	15	-	620	625	630	120

^{*1} Tolerance of measurements of chromaticity coordinate is ±10%

LED & Application Technologies









^{*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.



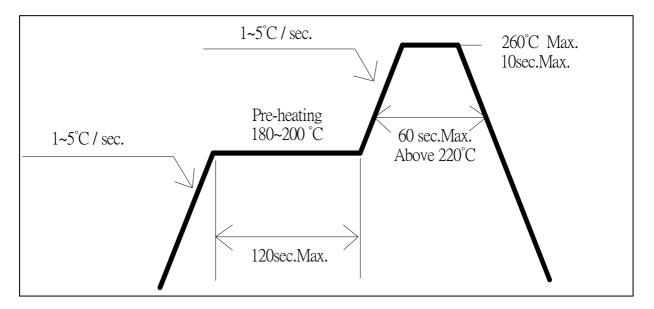
3.5x2.8x0.7mm Power Top H Power LED

OSXX2835C1H-150mA

■ Soldering Conditions

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

• 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.









http://www.optosupply.com