

OSTC3030C1H

Features

- Highest luminous flux
- Super energy efficiency
- Long lifetime operation
- Superior UV Resistance

Applications

- Toys
- Games
- Audio



Absolute Maximum Rating

(Ta=25°C)

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Directivity

Itam	Symph of	Value		Unit	
Item	Symbol	Red	Green/Blue	Unit	
DC Forward Current	$I_{\rm F}$	200	200	mA	
Pulse Forward Current*	I_{FP}	250	250	mA	
Reverse Voltage	VR	5	5	V	
Power Dissipation	PD	600	800	mW	
Operating Temperature	Topr	-30 ~	· +85	°C	
Storage Temperature	Tstg	-40 ~	°C		
Lead Soldering Temperature	Tsol	260°C	/10sec	-	



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

Electrical -Optical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
DC Forward Voltage	$V_F(R)$	IF=150mA	2.0	2.5	3.0	V
	$V_F(B/G)$	IF=150mA	3.0	3.3	4.0	V
DC Reverse Current	IR	V _R =5V	-	-	10	μA
Domi. Wavelength	$\lambda_D(Red)$	IF=150mA	620	625	630	nm
	$\lambda_D(Green)$	IF=150mA	520	525	530	nm
	$\lambda_D(Blue)$	IF=150mA	455	460	465	nm
Luminous Flux	Φv (Red)	IF=150mA	15	20	-	lm
	$\Phi v \ (\text{Green})$	IF=150mA	20	30	-	lm
	$\Phi v (\text{Blue})$	I _F =150mA	5	10	-	lm
50% Power Angle	201/2	I _F =150mA	-	120	-	deg

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

*2 Tolerance of measurements of luminous flux is $\pm 15\%$

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

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

LED & Application Technologies











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Soldering Conditions

Reflow Soldering		Han	Hand Soldering		
Pre-Heat	180 ~ 200°C				
Pre-Heat Time	120 sec. Max.		350°C Max. 3 sec. Max.		
Peak temperature	260°C Max.	Temperature			
Dipping Time	10 sec. Max.	Soldering time			
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

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.





ATTENTION

SERVE PRECAUTION

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3.0x3.0x0.6mm Tops H Power Full Color LED

OSTC3030C1H

Taping Packing



Moisture Resistant Packaging



Remarks: 5000pcs /Reel

ISO 9001: 2008

