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SMD 5060 LED SERIES

OF-SMD5060W-H WHITE



ATTENTION
 OBSERVE PRECAUTIONS
 FOR HANDLING
 ELECTROSTATIC
 DISCHARGE
 SENSITIVE
 DEVICES



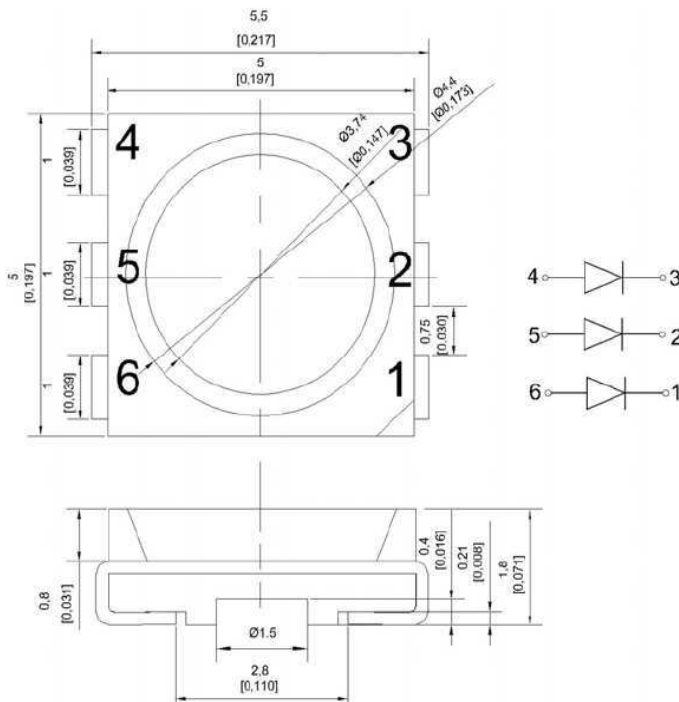
Description

The White source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide White Light Emitting Diode. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.

Features

- CHIPS CAN BE CONTROLLED SEPARATELY.
- SUITABLE FOR ALL SMT ASSEMBLY SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- PACKAGE: 1000PCS / REEL.

Package Dimensions



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ± 0.2 mm unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.



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Selection Guide

Part. No	Dice	Lens Type	Iv(mcd) @20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
OF-SMD5060W-H	WHITE(InGaN)	Yellow Diffused	3550	5000	110°

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Device	Condition	Min	Typ	Unit
Forward Voltage DC	VF	white	IF=3x20mA	3.0	3.2	V
Reverse Current	IR	white	VR=5V		5	uA
Chromacity Coordinates	x	white			0.29	
	y	white			0.30	
Capacitance	IF(rec)	white	VF=0V; f=1MHz		100	pF

Absolute Maximum Ratings at TA=25°C

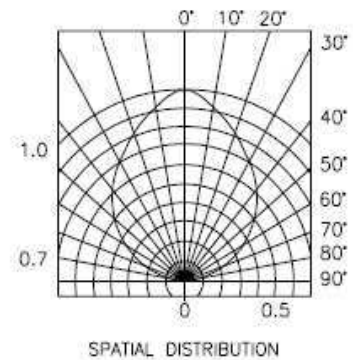
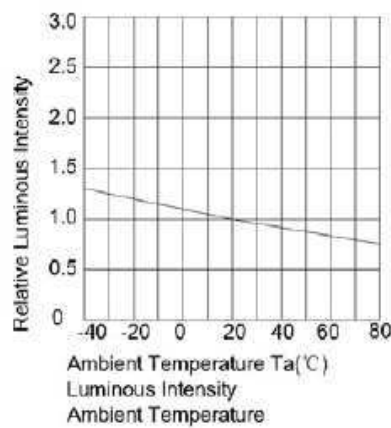
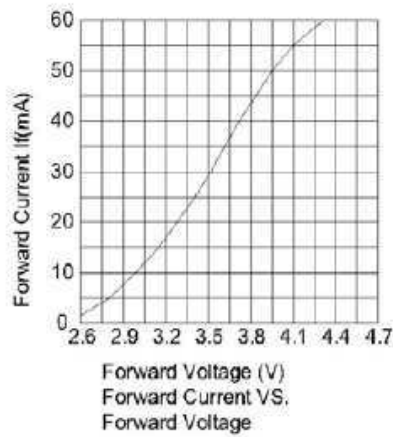
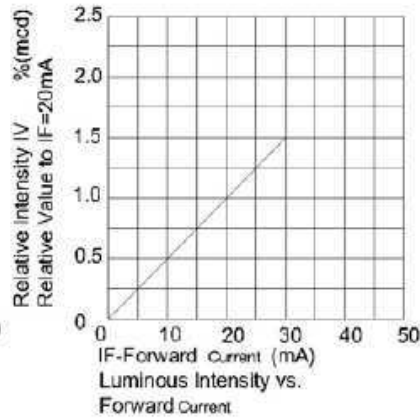
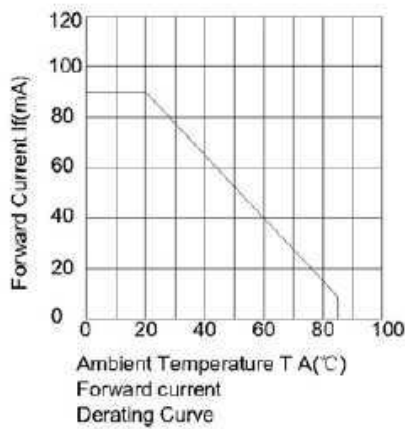
Parameter	White	Units
Power Dissipation	315	mW
DC Forward Current	90	mA
Peak Forward Current	300	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C to +85°C	

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



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Chromacity coordiantes

G☒ X:0.24 Y:0.22	X	0.205	0.235	0.270	0.240	C☒ X:0.35 Y:0.36	X	0.305	0.350	0.380	0.345
	Y	0.190	0.250	0.235	0.175		Y	0.360	0.395	0.365	0.330
F☒ X:0.265 Y:0.26	X	0.235	0.260	0.295	0.270	B☒ X:0.38 Y:0.38	X	0.350	0.390	0.410	0.380
	Y	0.250	0.290	0.270	0.235		Y	0.395	0.410	0.380	0.365
E☒ X:0.285 Y:0.30	X	0.260	0.280	0.315	0.295	A☒ X:0.41 Y:0.40	X	0.390	0.440	0.440	0.410
	Y	0.290	0.325	0.300	0.270		Y	0.410	0.425	0.395	0.380
D☒ X:0.31 Y:0.33	X	0.280	0.305	0.345	0.315	Tolerance for each Bin limit is ± 0.15 .					
	Y	0.325	0.360	0.330	0.300						

SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.

