# **3mm × 2mm SMD White LED MulticompPRO**

### RoHS Compliant

### Absolute Maximum Ratings at T<sub>A</sub> = 25°C

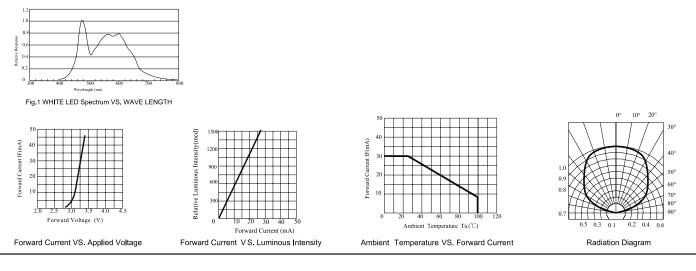
Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	120	mW
Reverse Voltage	Vr	5	V
D.C. Forward Current	lf	30	mA
Peak Current(1/10Duty Cycle, 0.1ms Pulse Width.)	lf(Peak)	100	mA
Operating Temperature Range	Topr.	-40 to +100	°C
Storage Temperature Range	Tstg.	-40 to +100	°C
Soldering Temperature	Tsld.	Reflow Soldering: 260°C for 10 Sec. Hand Soldering: 350°C for 3 Sec.	
Electric Static Discharge Threshold (HBM)	ESD	6000	V

### **Electrical and Optical Characteristics**

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	lv	lf=20mA	700	1150	-	mcd
Luminous Flux	Φν	lf=20mA	-	1750	-	mlm
Forward Voltage V	Vf	lf=20mA	-	3.2	4	V
CIE Chromaticity Coordinates : X Axis	х	lf=20mA	-	0.31	-	-
CIE Chromaticity Coordinates : Y Axis	Y	lf=20mA	-	0.3	-	-
Reverse Current	lr	Vr=5V	-	-	50	μA
Viewing Angle	201/2	lf=20mA	-	120	-	deg

### **Typical Electrical/Optical Characteristic Curves**

### (25 Ambient Temperature Unless Otherwise Noted)



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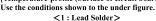
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### Soldering

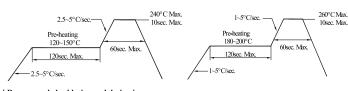
Reflow Soldering			Hand Soldering		
	Lead Solder	Lead - free Solder	-	-	
Pre-Heat	120°C to 150°C	180°C to 200°C	Temperature	350°C Max.	
Pre-Heat Time	120 Sec. Max.	120 Sec. Max.			
Peak Temperature	240°C Max.	240°C Max.	Coldoring Time	3 Sec. Max.	
Soldering Time	10 Sec. Max.	10 Sec. Max.	Soldering Time	(one time only)	
Condition	Refer to Temperature - Profile 1	Refer to Temperature - Profile 2			

After reflow soldering rapid cooling should be avoid.

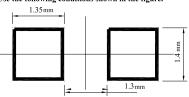
#### [Temperature-profile (Surface of circuit board)]



<2 : Lead-free Solder>

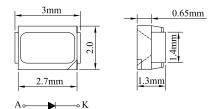


[ Recommended soldering pad design ] Use the following conditions shown in the figure.



Material of LED Chip	Colour Coordinates of LED Chip	Lens Colour
InGaN/Sapphire	X=0.31 Y=0.3	Water Clear

### Dimensions



Tolerance is ±0.25mm unless otherwise noted.

### Part Number Table

Description	Part Number	
LED, 3.0 x 2.0 x 1.3mm, SMD, White	703-1050	

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