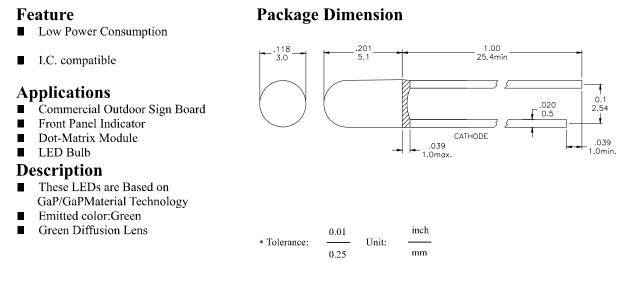
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VAOL-3MDE2



Absolute Maximum Ratings at Ta=25°C

Symbol	Parameter	Max.	Unit			
PD	Power Dissipation	120	mW			
VR	Reverse Voltage	5	V			
IAF	Average Forward Current	30	mA			
IPF	Peak Forward Current (Duty=0.1 , 1kHz) 100		mA			
	Derating Linear Form 25°C	0.4	mA / ℃			
Topr	Operating Temperature Range	-40 to $+80$	°C			
Tstg	Storage Temperature Range	-40 to $+100$	°C			
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260 $^\circ\!\!\mathbb{C}$ For 5 Seconds.						

Electrical / Optical Characteristics and Curves at Ta=25°C

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
VF	Forward Voltage	IF = 20 mA		2.2	2.4	V
IR	Reverse Current	VR = 5 V			50	μA
riangle heta	Half Intensity Angle	IF = 20 mA		60		Deg.
IV	Luminous Intensity	IF= 20 mA		80		mcd.
λd	Dominant Wavelength	IF = 20 mA		570		nm

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Symbol		Iv	VF			λ D	
Parameter	Lum	inous Intensity	Forward Voltage		Dominant Wavelength		
Condition	IF=20mA		IF=20mA		IF=20mA		
Unit		mcd V		nm			
	Grade	Range	Grade	Range	Grade	Range	
			D	2.0~2.1	G7	567~569	
Binning			Е	2.1~2.2	G8	569~571	
Binning			F	2.2~2.3	G9	571~573	
			G	2.3~2.4			

Electrical Characteristics at Ta=25°C

Intensit : Tolerance of minimum and maximum = $\pm 15\%$

Vf: Tolerance of minimum and maximum = $\pm 0.05v$ NOTE:

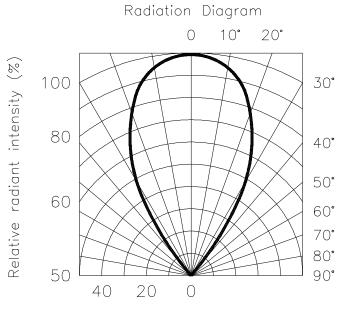
1. Static electricity and surge damages the LED. It is recommend to use a anti-static wrist band or anti-electrostatic glove when handing the LEDs. All devices, equipment and machinery must be properly grounded.

2. Specific binning requirements- please contact our home office

Radiation Diagram

IF=20 mA 50% Power Angle

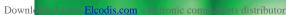




Angular displacement θ

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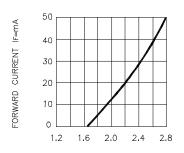
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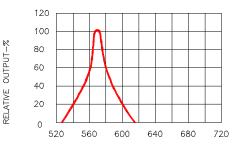


GREEN

Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)



FORWARD VOLTAGE(VF)-VOLTS Fig.1 FORWARD CURRENT VS FORWARD VOLTAGE



WAVELENGTH(1)-nm Fig.2 SPECTRAL RESPONSE

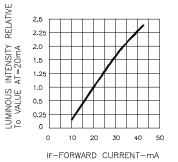
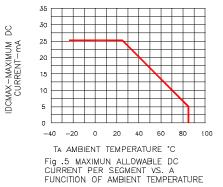
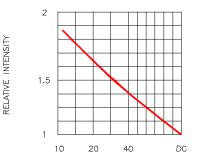
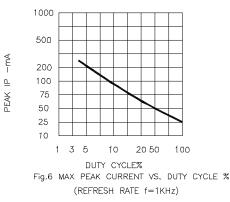


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT





DUTY CYCLE% PER SEGMENT (AVERAGE IF=10mA) Fig.4 LUMINOUS INTENSITY VS.DUTY CYCLE



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