VCC OPTOELECTRONICS
lighting:theway

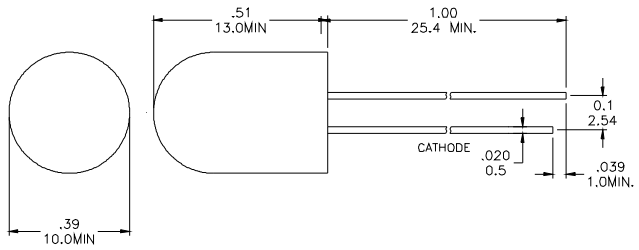
SUPERBRIGHT LED LAMP
VAOL-10GGE4

Feature
- Low Power Consumption
- High Intensity
- I.C. compatible

Applications
- Commercial Outdoor Sign Board
- Front Panel Indicator
- Dot-Matrix Module
- LED Bulb

Description
These High Intensity LEDs are Based on AlGaInP Material Technology
Emitted color: Green
Water Transparent Lens

Package Dimension



Tolerance± 0.01 / 0.25 Unit± inch / mm

Absolute Maximum Ratings at Ta=25℃

Symbol	Parameter	Max.	Unit
PD	Power Dissipation	100	mW
VR	Reverse Voltage	5	V
IAF	Average Forward Current	25	mA
IPF	Peak Forward Current (Duty=0.1，1kHz)	85	mA
—	Derating Linear Form 25℃	0.4	mA / ℃
Topr	Operating Temperature Range	-40 to +80	℃
Tstg	Storage Temperature Range	-40 to +100	℃
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260℃ For 5 Seconds.			

Electrical / Optical Characteristics and Curves at Ta=25℃

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
VF	Forward Voltage	IF= 20 mA		2.0	2.4	V
IR	Reverse Current	VR= 5 V			100	μA
△θ	Half Intensity Angle	IF= 20 mA		25		Deg.
IV	Luminous Intensity	IF= 20 mA		1300		mcd.
λp	Peak Wavelength	IF= 20 mA		571		nm
λd	Dominant Wavelength	IF= 20 mA		572		nm

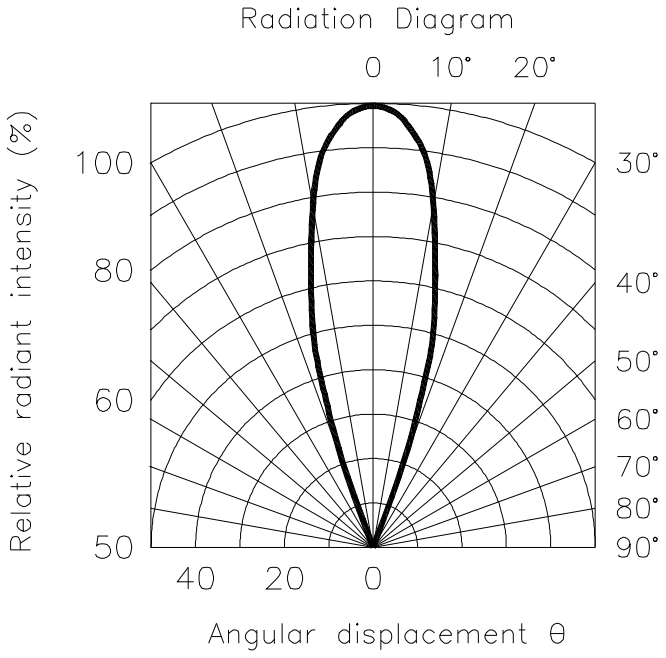
Electrical Characteristics at Ta＝25℃

Symbol	Iv		V_F		λ D	
Parameter	Luminous Intensity		Forward Voltage		Dominant Wavelength	
Condition	IF＝20mA		IF＝20mA		IF＝20mA	
Unit	mcd		V		nm	
Binning	Grade	Range	Grade	Range	Grade	Range
	BIN 16	950~1300	B	1.8~1.9	G9	569~571
	BIN 17	1300~1800	C	1.9~2.0	G10	571~573
			D	2.0~2.1	G11	573~575
			E	2.1~2.2		
			F	2.2~2.3		

Intensity: Tolerance of minimum and maximum = ± 15%
Vf: Tolerance of minimum and maximum = ± 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.

Radiation Diagram

IF=20 mA 50% Power Angle Angle =25°



Typical Electro-Optical Characteristics Curves