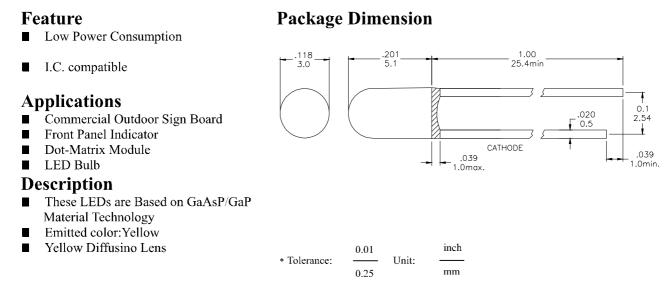
OPTOELECTRONICS



lighting:theway

VAOL-3MCE2



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 $+85$	°C			
Tstg	Storage Temperature Range	-40 to $+100$	°C			
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.						

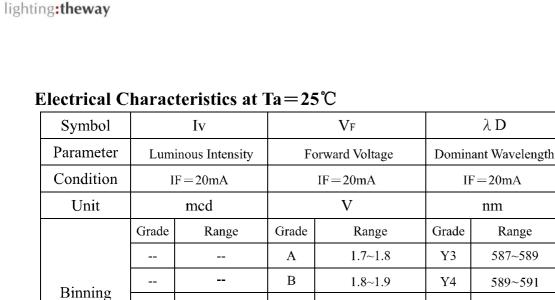
Electrical / Optical Characteristics and Curves at Ta=25°C

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
VF	Forward Voltage	IF = 20 mA		1.8	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		590		nm

190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301







Intensity: 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.

С

1.9~2.0

2. Specific binning requirements- please contact our home office

Radiation Diagram

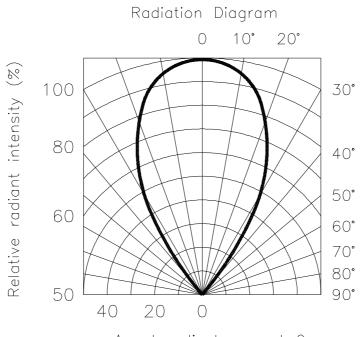
IF=20 mA 50% Power Angle

Angle =60°

Y5

Range

591~593



Angular displacement θ



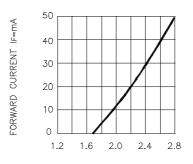


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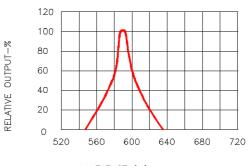


YELLOW

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







 $WAVELENGTH(\lambda)-nm$ Fig.2 SPECTRAL RESPONSE

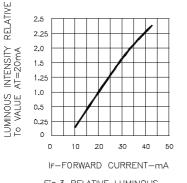
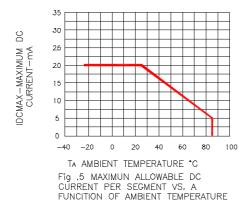
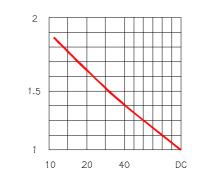


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT





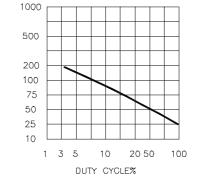
RELATIVE INTENSITY

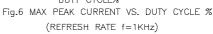
Am-

≞

PEAK

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











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