VCC | OPTOELECTRONICS
lighting:theway

LED LAMP

VAOL-5MCE2

Feature

§ Low Power Consumption
§ I.C. compatible

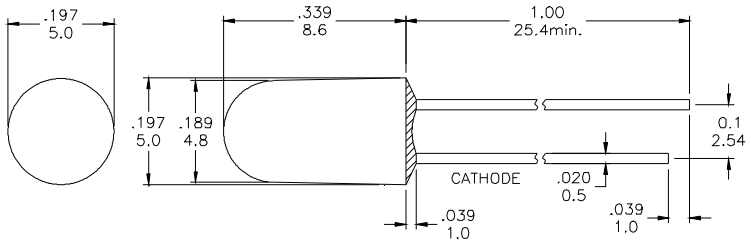
Applications

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

Description

§ These LEDs are Based on GaAsP/GaP Material Technology
§ Emitted color:Yellow
§ Yellow Diffusion 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	30	mA
IPF	Peak Forward Current（Duty＝0.1，1kHz）	100	mA
—	Derating Linear Form 25℃	0.4	mA/℃
Topr	Operating Temperature Range	−20 to ＋80	℃
Tstg	Storage Temperature Range	−20 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		60		Deg.
IV	Luminous Intensity	IF＝ 20 mA		80		mcd.
λd	Dominant Wavelength	IF＝ 20 mA		590		nm

Specific binning requirements –please contact our home office

www.vcclite.com
190 bosstick blvd, ste 101
san marcos, ca 92069
phone 760.560.1300
fax 760.560.1301

RoHS
ISO 9001 Registered

YELLOW

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

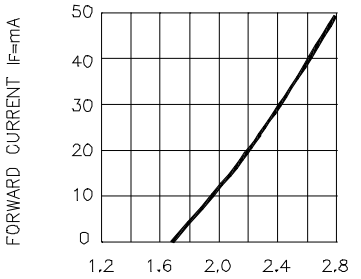


Fig.1 FORWARD CURRENT VS FORWARD VOLTAGE

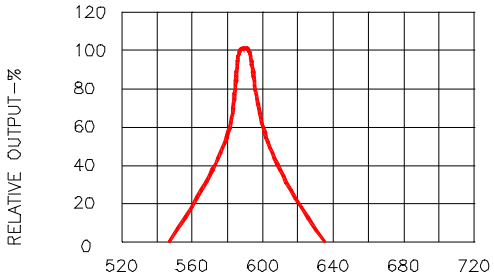


Fig.2 SPECTRAL RESPONSE

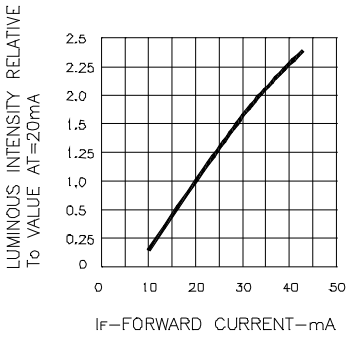


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

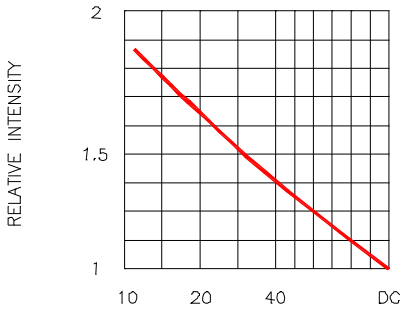


Fig.4 LUMINOUS INTENSITY VS.DUTY CYCLE

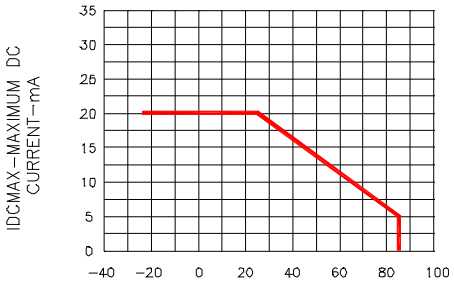


Fig .5 MAXIMUN ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCITION OF AMBIENT TEMPERATURE

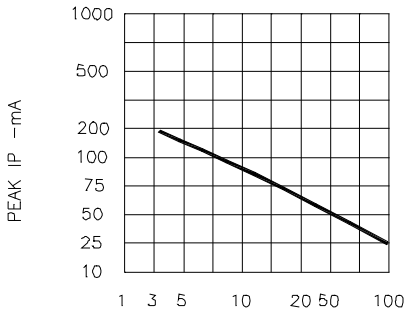


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE f=1KHz)