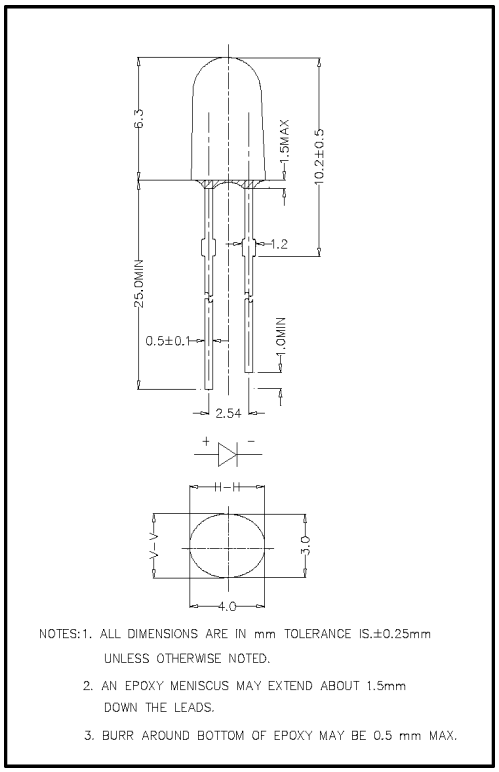
COTCO

Elliptical InGaAlP Red Ultra Bright LED

LO494THR4−B0G-A



Features

All Plastic Mold Type
High Luminous Intensity
Low Current Requirements
Tinted Diffused Lens
Wide Viewing Angle 100º x 50º
THIS PRODUCT HAS STAND−OFFS

Applications

Backlighting
Full color/RGB Video Screens
Time/Temperature Boards
VMS

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	50	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	130.00	mW
Operating Temperature	T_{opr}	−40 ~ +95	°C
Storage Temperature	T_{stg}	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	°C
Soldering Time	−	for 3 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	--	2.30	2.60	V
Reverse Current	I_R	V_R=5V	−	−	100	μA
Luminous Intensity	I_V	I_F=20mA	390.00	750.00	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	100° x 50°	−	deg.
Peak Wavelength	λp	I_F=20mA	−	639	−	nm
Dominant Wavelength	λd	I_F=20mA	−	628	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	23	−	nm

Company Headquarters
120 Broadway
Menands, New York 12204
Toll Free: 800.984.5337
Fax: 518.432.7454

marktech optoelectronics
Web: www.marktechopto.com | Email: info@marktechopto.com

West Coast Sales Office
950 South Coast Drive, Suite 265
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

LO494THR4−B0G-A Graphs

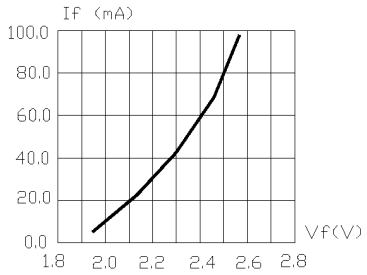


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

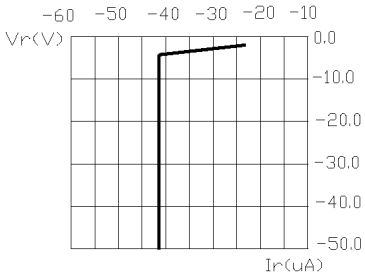


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

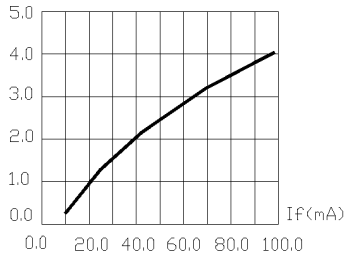


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

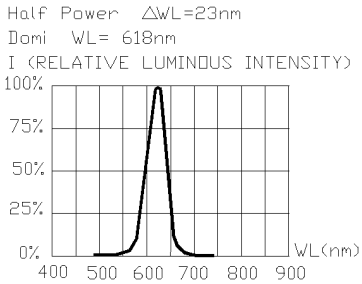


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

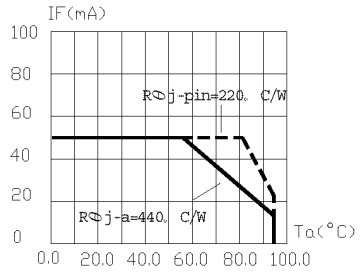


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105°C)

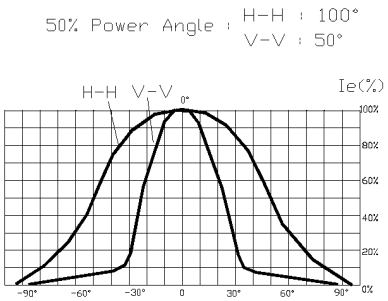


FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area (0.18 ×0.18inch^2)
2. Height above nominal seating plane in inches(0.3inch)

Company Headquarters
120 Broadway
Menands, New York 12204
Toll Free: 800.984.5337
Fax: 518.432.7454

marktech optoelectronics
Web: www.marktechopto.com | Email: info@marktechopto.com

West Coast Sales Office
950 South Coast Drive, Suite 265
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314