COTCO

P4 Yellow InGaAlP Ultra Bright LED

LP378TYL1−C0G

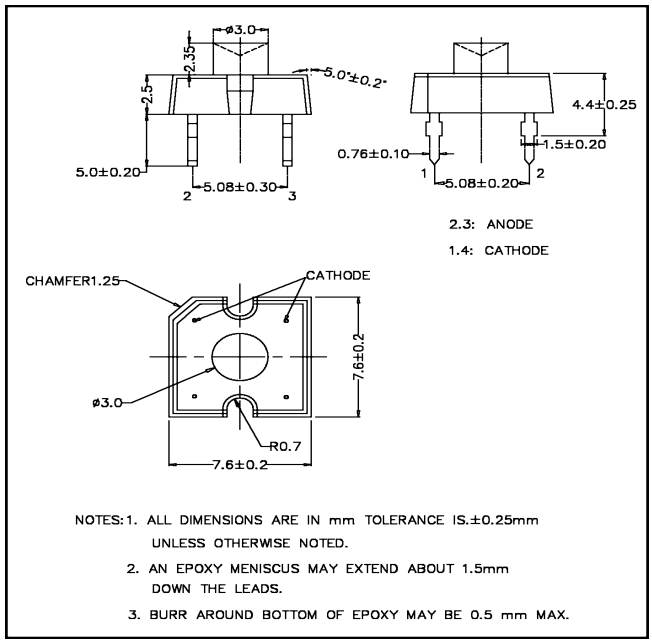
ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

Features

4 Pin Plastic Package
Low Profile
Concave Lens
Very Wide Viewing Angle (120º)

Applications

Backlighting
General Purpose Lighting



Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	70	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	150.00	mW
Operating Temperature	T_{opr}	−40 ~ +100	°C
Storage Temperature	T_{stg}	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	°C
Soldering Time	−	for 5 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=70mA	2.20	2.60	3.00	V
Reverse Current	I_R	V_R=5V	−	−	100	μA
Luminous Flux	Φ	I_F=70mA	1560.00	3000.00	−	mlm
Viewing Angle	$2\theta^{1/2}$	−	−	120°	−	deg.
Peak Wavelength	λp	I_F=70mA	−	594	−	nm
Dominant Wavelength	λd	I_F=70mA	−	591	−	nm
Spectral Line Half Width	Δλ	I_F=70mA	−	20	−	nm

Company Headquarters
3 Northway Lane North
Latham, New York 12110
Toll Free: 800.984.5337
Fax: 518.785.4725

Marktech Optoelectronics
Web: www.marktechopto.com | Email: info@marktechopto.com

California Sales Office:
950 South Coast Drive, Suite 225
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

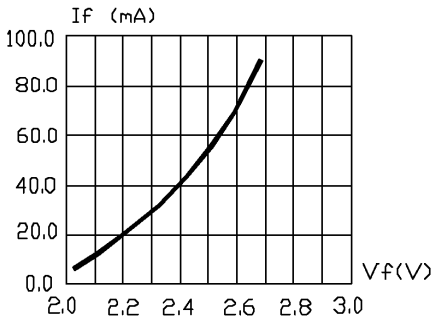


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

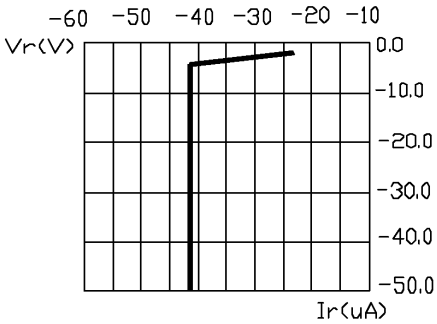


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

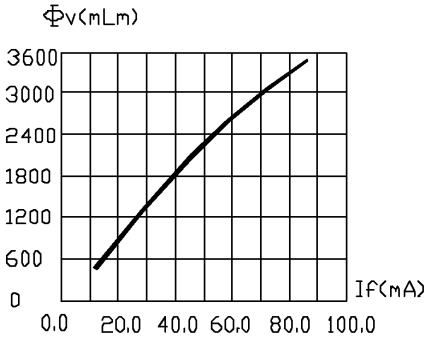


FIG.3 RELATIVE FLUX VS. FORWARD CURRENT.

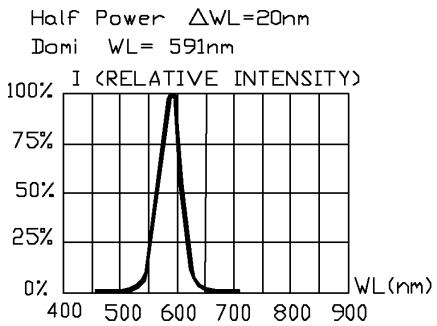


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

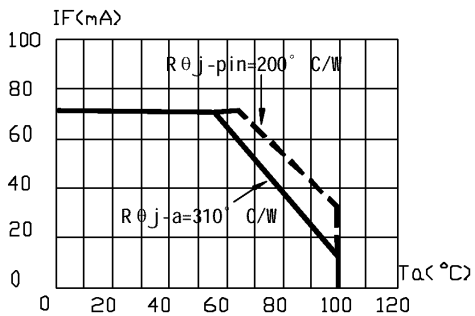


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE, DERATING BASED ON TJmax=120°C

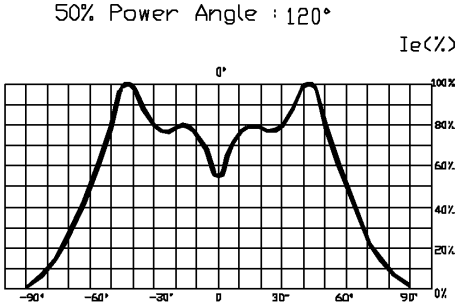


FIG.6 SPATIAL DISTRIBUTION.

1.Cathode PAD Area ($0.18 \times 0.18 \times 2inch^2$)

Company Headquarters
3 Northway Lane North
Latham, New York 12110
Toll Free: 800.984.5337
Fax: 518.785.4725

Marktech Optoelectronics
Web: www.marktechopto.com | Email: info@marktechopto.com

California Sales Office:
950 South Coast Drive, Suite 225
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314