

### LC503TPG1-30H-A

#### Features

5mm Package  
High Optical Power  
High Luminous Intensity  
Water Clear Lens  
All Plastic Mold Type

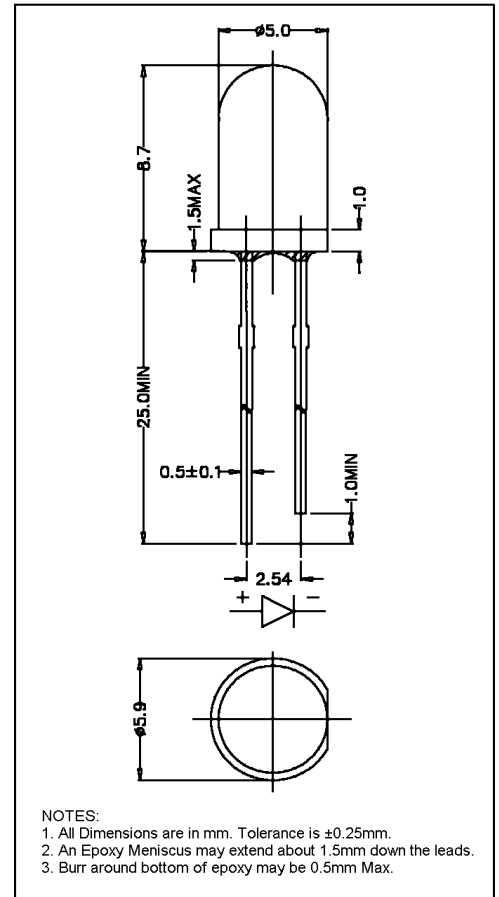
#### Applications

Outdoor Message Centers  
VMS  
Automotive Interior Lighting  
Traffic Signals  
Pedestrian Signals  
Decorative Lighting



### ATTENTION

OBSERVE PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE DEVICES



#### Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	$I_F$	25	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	100.00	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	$V_F$	$I_F=20\text{mA}$	-	3.40	4.00	V
Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	100	$\mu\text{A}$
Luminous Intensity	$I_v$	$I_F=20\text{mA}$	4180.00	7500.00	-	mcd
Viewing Angle	$2\theta^{1/2}$	-	-	30°	-	deg.
Peak Wavelength	$\lambda_p$	$I_F=20\text{mA}$	-	520	-	nm
Dominant Wavelength	$\lambda_d$	$I_F=20\text{mA}$	-	525	-	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F=20\text{mA}$	-	38	-	nm

## Graphs

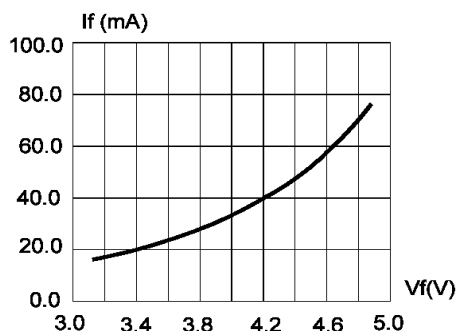


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

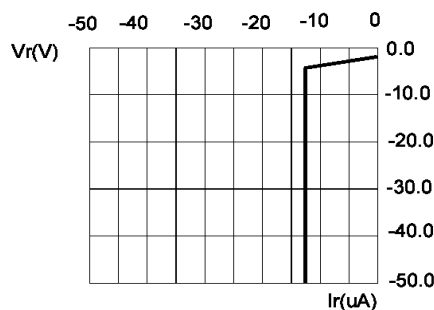


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

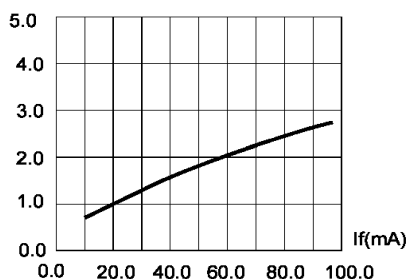


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

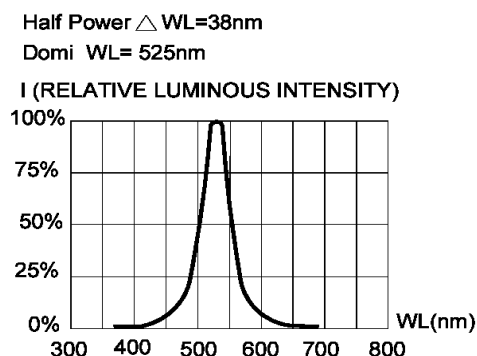


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

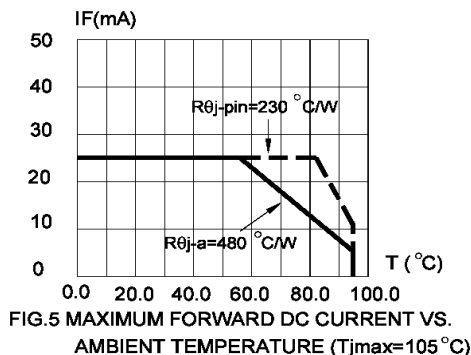


FIG.5 MAXIMUM FORWARD DC CURRENT VS. AMBIENT TEMPERATURE ( $T_{jmax}=105^{\circ}\text{C}$ )

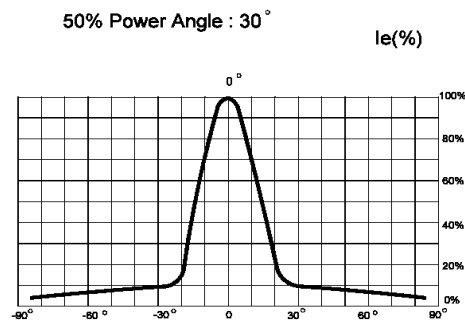


FIG.6 FAR FIELD PATTERN

1. Cathode PAD Area ( $0.18 \times 0.18\text{inch}^2$ )
2. Height above nominal seating plane in inches(0.3inch)