

### LC503TRO1-30Q

#### Features

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

#### Applications

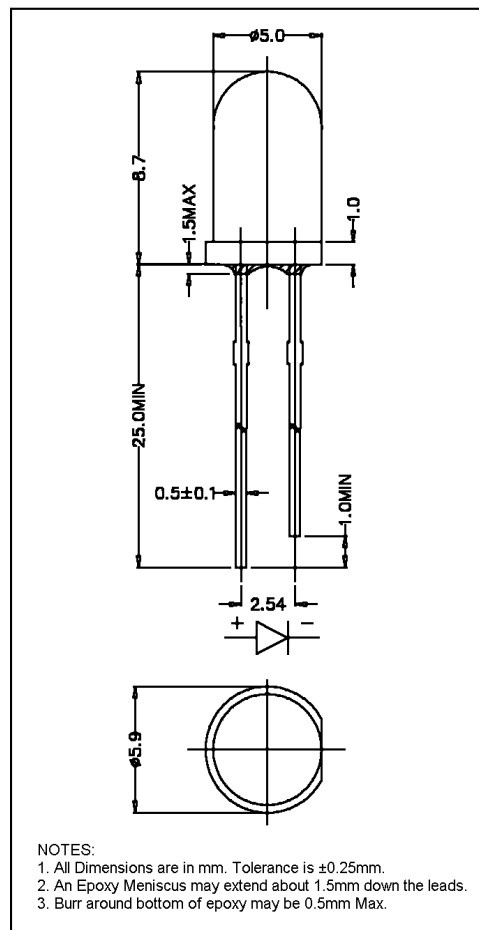
Outdoor Message Centers  
VMS  
Automotive Interior Lighting  
Traffic Signals  
Pedestrian Signals  
Decorative Lighting

#### Maximum Ratings (Ta=25°C)

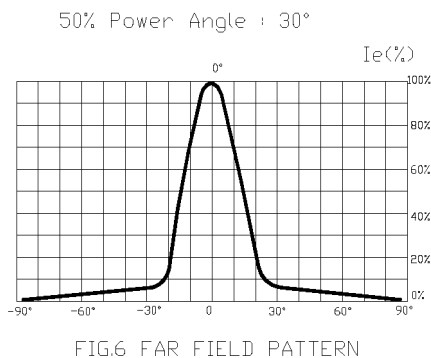
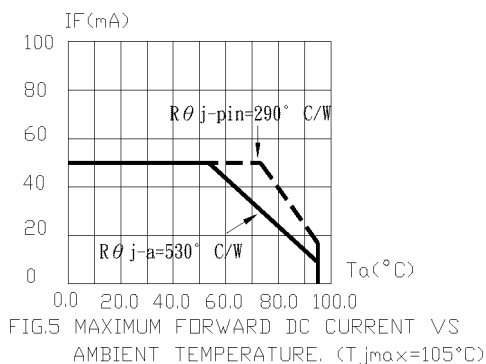
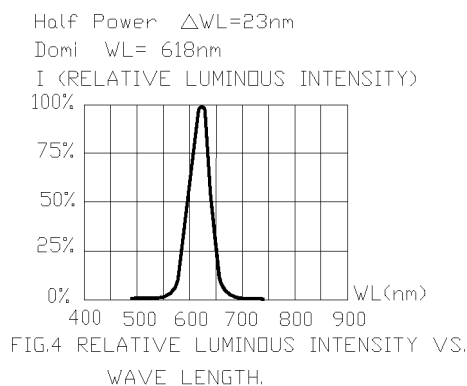
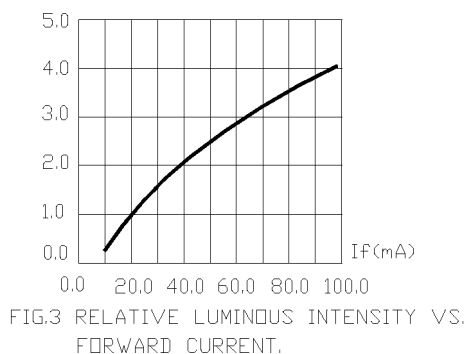
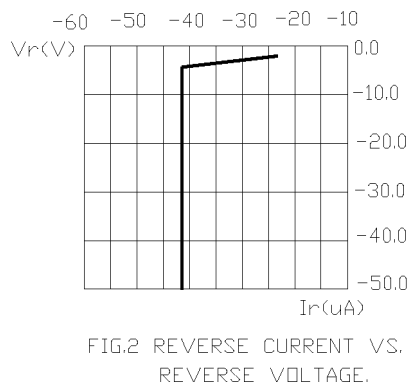
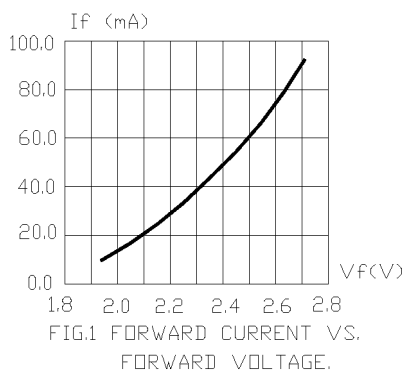
Characteristic	Symbol	Max.	Unit
Forward Current	I <sub>F</sub>	50	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	150.00	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +95	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature	T <sub>sol</sub>	260	°C
Soldering Time	—	for 5 sec. max	—

#### Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	1.70	2.10	2.60	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	—	—	100	μA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA	1520.00	3000.00	—	mcd
Viewing Angle	2θ <sup>1/2</sup>	—	—	30°	—	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =20mA	—	625	—	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	—	618	—	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =20mA	—	23	—	nm



### LC503TRO1-30Q Graphs



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