

LC503NBL1-30Q

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



ATTENTION

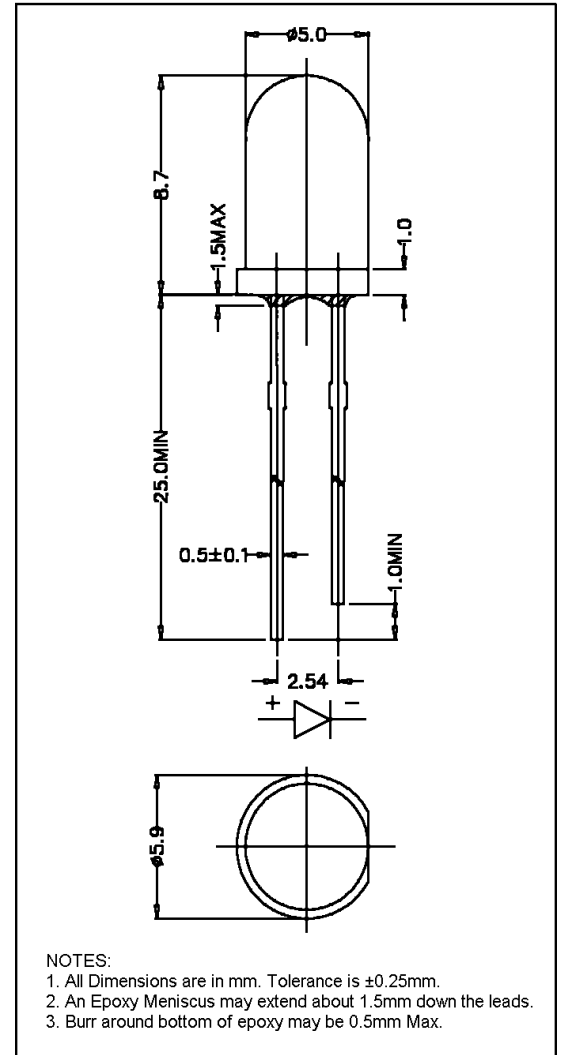
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	25	mA
Reverse Voltage	V _R	5.00	V
Power Dissipation	P _D	120.00	mW
Operating Temperature	T _{opr}	-20 ~ +75	°C
Storage Temperature	T _{stg}	-30 ~ +80	°C
Soldering Temperature	T _{sol}	260	°C
Soldering Time	-	for 3 sec.	-

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =20mA	3.20	3.60	4.20	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Luminous Intensity	I _v	I _F =20mA	550.00	800.00	-	mcd
Viewing Angle	2θ _{1/2}	-	-	30°	-	deg.
Peak Wavelength	λ _p	I _F =20mA	-	465	-	nm
Dominant Wavelength	λ _d	I _F =20mA	-	470	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	-	28	-	nm



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LC503NBL1-30Q Graphs

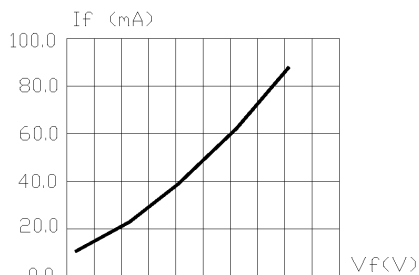


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

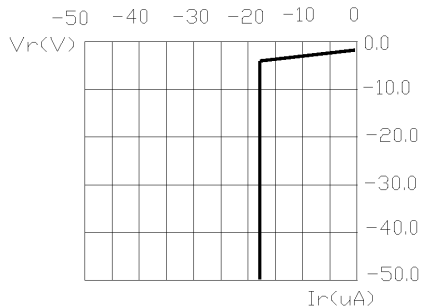


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

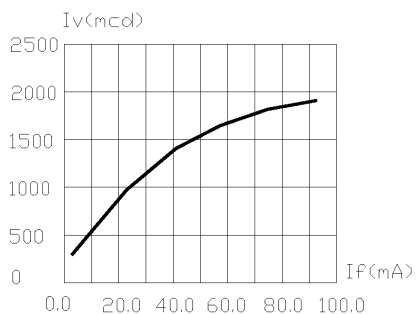


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

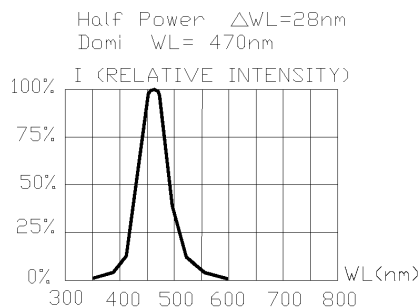


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

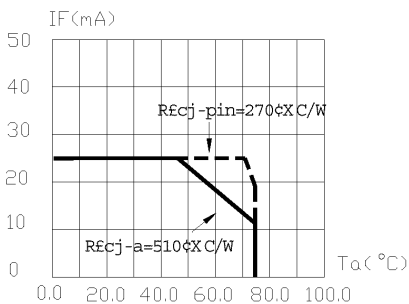


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax} = 95^{\circ}C$

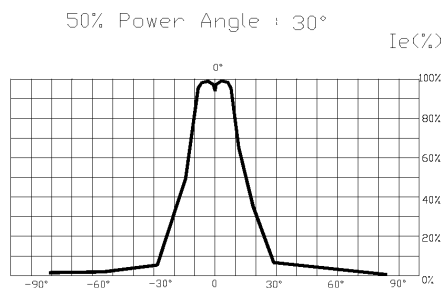


FIG.6 SPATIAL DISTRIBUTION.

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