

LO565THR4-B0G

Features

All Plastic Mold Type
 High Power Luminous Intensity
 Low Current Requirements
 Tinted Diffused Lens

Applications

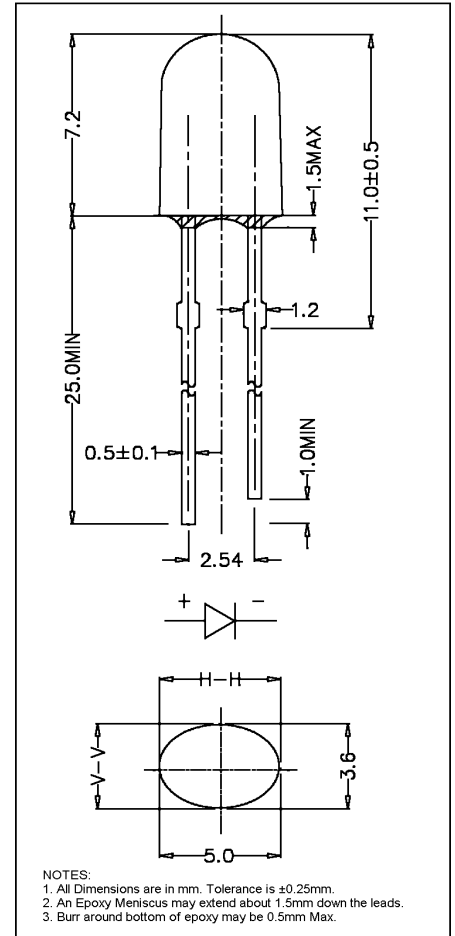
Backlighting
 Time/Temp Boards
 VMS
 Full Color/RGB Video Signs

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	50	mA
Reverse Voltage	V _R	5.00	V
Power Dissipation	P _D	120.00	mW
Operating Temperature	T _{opr}	-40 ~ +95	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	T _{sol}	260	°C
Soldering Time	-	for 5 sec. max	-

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =20mA	1.70	2.10	2.60	V
Reverse Current	I _R	V _R =5V	-	-	100	µA
Luminous Intensity	I _v	I _F =20mA	550.00	750.00	-	mcd
Viewing Angle	2θ ^{1/2}	-	-	100° x 40°	-	deg.
Peak Wavelength	λ _p	I _F =20mA	-	639	-	nm
Dominant Wavelength	λ _d	I _F =20mA	-	628	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	-	23	-	nm



LO565THR4-B0G Graphs

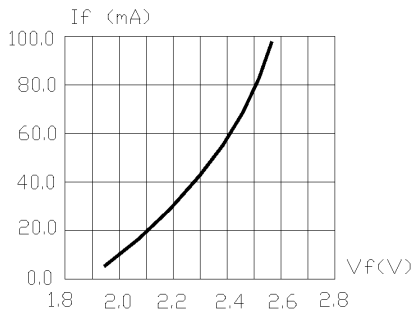


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

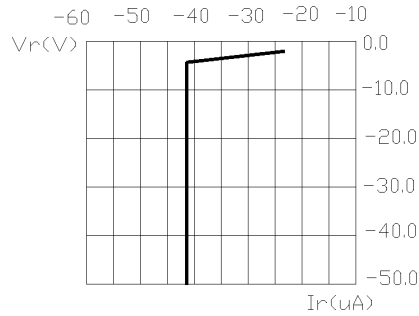


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

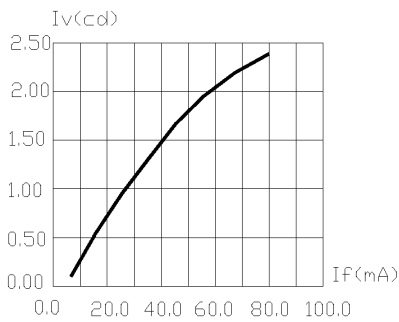


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

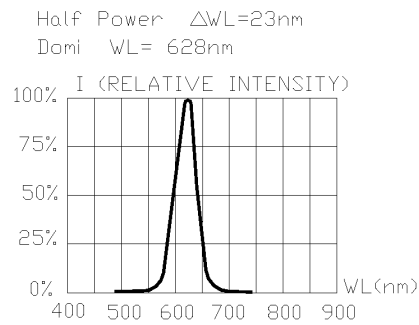


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

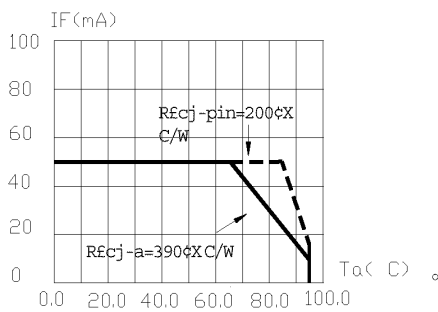


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax} = 110^\circ C$

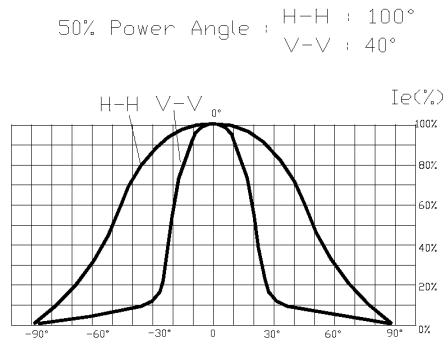


FIG.6 SPATIAL DISTRIBUTION.

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