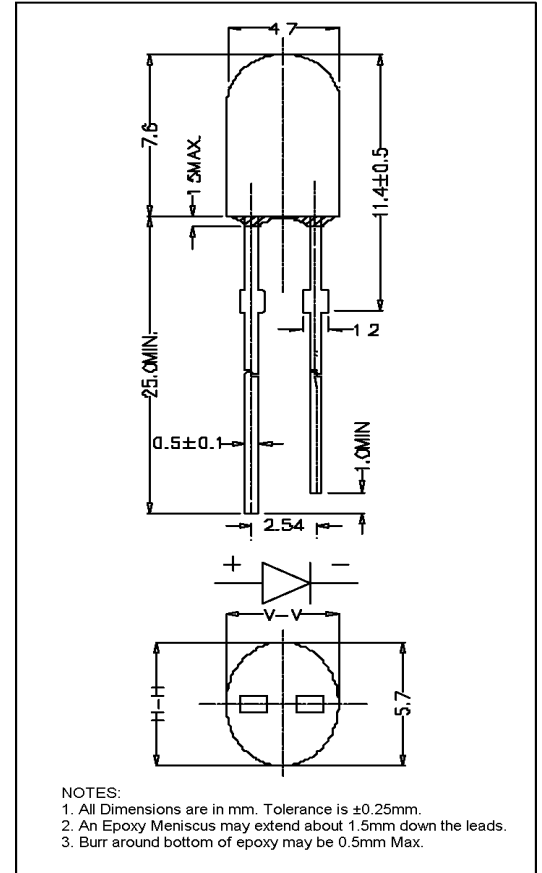


Features

All Plastic Mold Type
 High Luminous Intensity
 Low Current Requirements
 Wide Viewing Angle 75° x 40°

Applications

Backlighting
 Full Color/RGB Video Screens
 Time/Temperature Boards
 VMS



Series Line-Up

Part Number	Color	Material
LO561MBL3-75P	Ultra Bright Blue	GaN
LO561MHR1-75Q	Ultra Bright High Efficiency Red	InGaAlP
LO561MHR3-75P	Ultra High Efficiency Red	InGaAlP
LO561MPG3-75P	Ultra Bright Pure Green	GaN
LO561MSO3-75P	Ultra Bright Orange	InGaAlP
LO561MYL1-75Q	Ultra Bright Yellow	InGaAlP
LO561MYL3-75P	Ultra Bright Yellow	InGaAlP

Maximum Ratings (Ta=25°C)

Part Number	Forward Current I _F	Reverse Voltage V _R	Power Dissipation P _D	Operating Temperature T _{opr}	Storage Temperature T _{stg}
LO561MBL3-75P	25	5	120.00	-20 ~ +75	-30 ~ +80
LO561MHR1-75Q	50	5	200.00	-40 ~ +95	-40 ~ +100
LO561MHR3-75P	50	5	150.00	-40 ~ +95	-40 ~ +100
LO561MPG3-75P	25	5	120.00	-20 ~ +75	-30 ~ +80
LO561MSO3-75P	50	5	150.00	-40 ~ +95	-40 ~ +100
LO561MYL1-75Q	50	5	200.00	-40 ~ +95	-40 ~ +100
LO561MYL3-75P	50	5	150.00	-40 ~ +95	-40 ~ +100
Unit	mA	V	mW	°C	°C

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 Fax: 562.628.5572

Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm λ_P	Material	View Angle $2\theta_{1/2}$	Luminous Intensity I_v				Forward Voltage V_F				Rev Current I_R		
				min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@	
LO561MBL3-75P	465	GaN	75° x 40°	52.00	110.00	-	20mA	3.20	3.60	4.20	20mA	100	5V	
LO561MHR1-75Q	630	InGaAlP	75° x 40°	280.00	480.00	-	20mA	1.70	2.00	2.50	20mA	100	5V	
LO561MHR3-75P	636	InGaAlP	75° x 40°	280.00	390.00	-	20mA	1.70	2.00	2.50	20mA	100	5V	
LO561MPG3-75P	520	GaN	75° x 40°	200.00	390.00	-	20mA	3.20	3.60	4.20	20mA	100	5V	
LO561MSO3-75P	612	InGaAlP	75° x 40°	280.00	480.00	-	20mA	1.70	2.00	2.50	20mA	100	5V	
LO561MYL1-75Q	593	InGaAlP	75° x 40°	280.00	480.00	-	20mA	1.70	2.00	2.50	20mA	100	5V	
LO561MYL3-75P	590	InGaAlP	75° x 40°	280.00	480.00	-	20mA	1.70	2.00	2.50	20mA	100	5V	
-	nm	-	deg	mcd				-	V			-	mA	-

LO561MBL3-75P Graphs

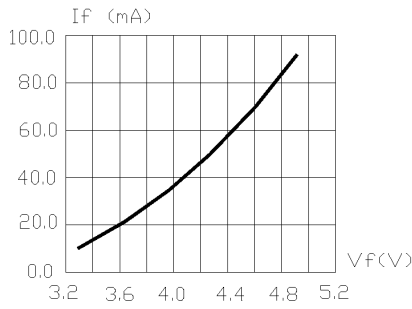


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

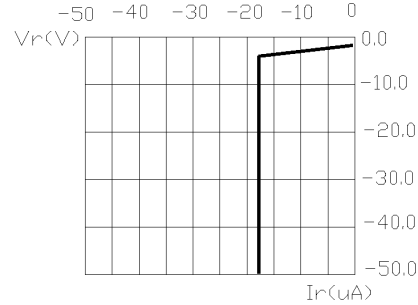


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

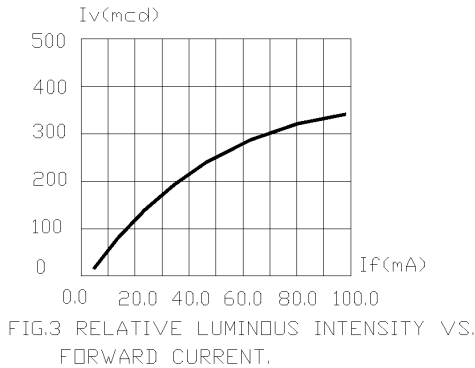


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

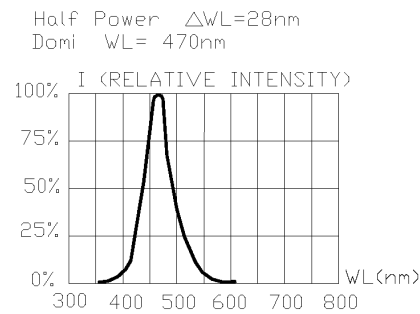


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

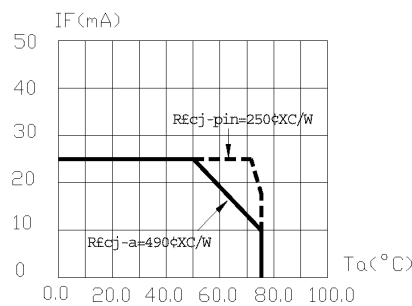


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE . DERATING BASED ON $T_{jmax}=95^{\circ}C$

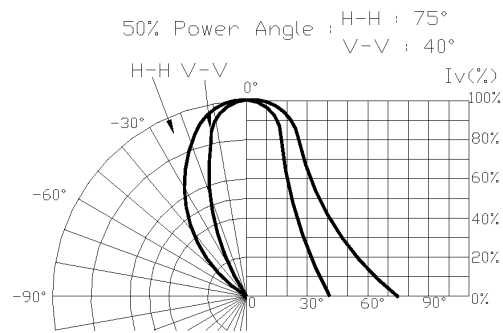


FIG.6 SPATIAL DISTRIBUTION.

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

LO561MHR1-75Q Graphs

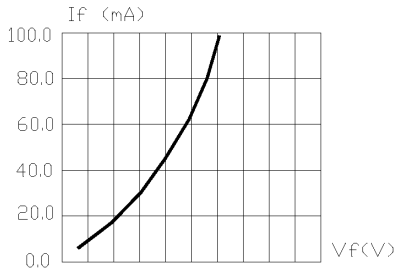


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

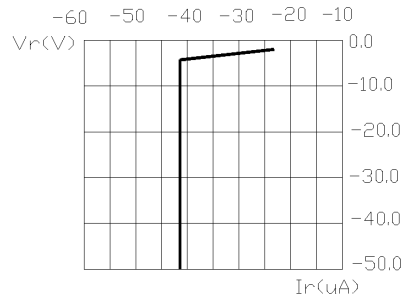


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

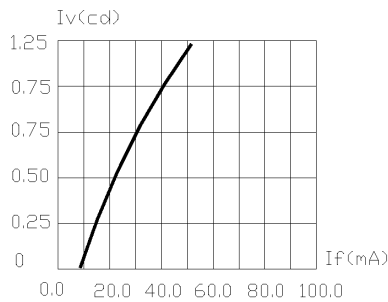


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

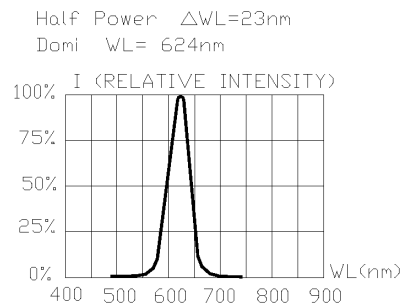


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

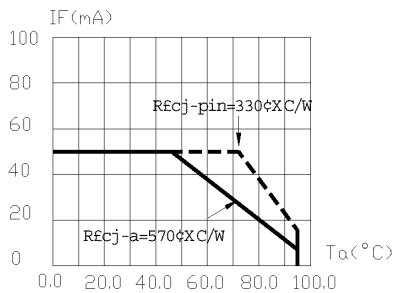


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax} = 105^{\circ}C$

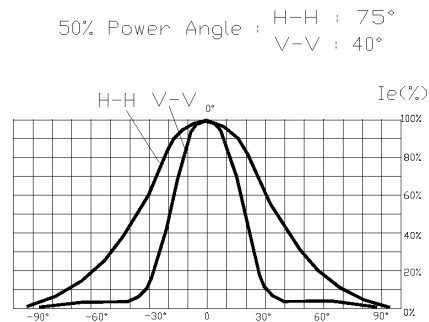


FIG.6 SPATIAL DISTRIBUTION.

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

LO561MHR3-75P Graphs

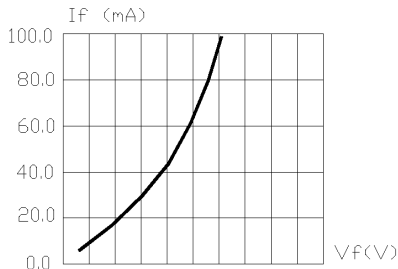


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

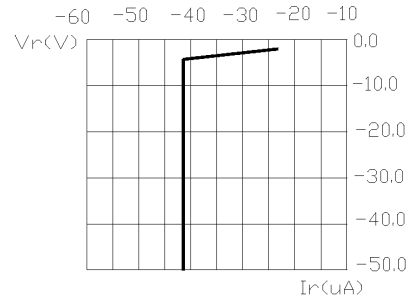


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

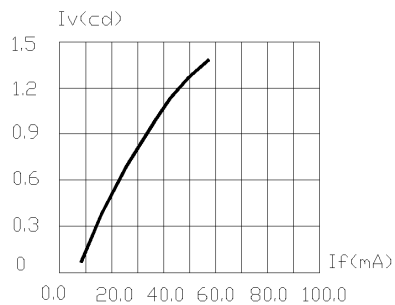


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

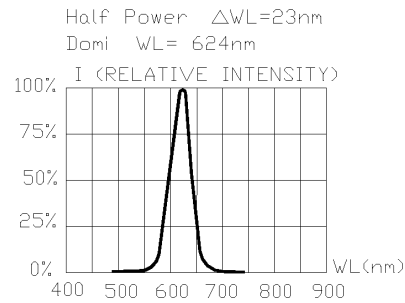


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

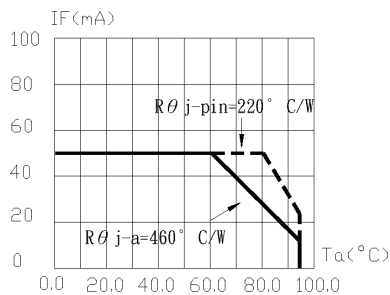


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON Tjmax=105°C

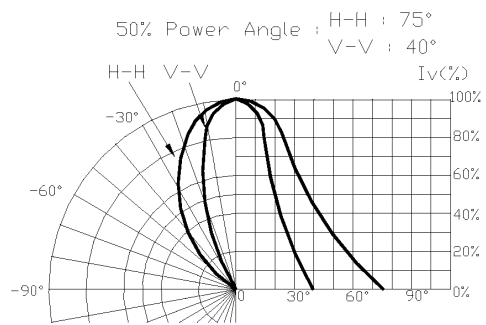


FIG.6 SPATIAL DISTRIBUTION.

- 1.Cathode PAD Area (0.18 x0.18inch²)
- 2.Height above nominal seating plane in inches(0.3inch)

LO561MPG3-75P Graphs

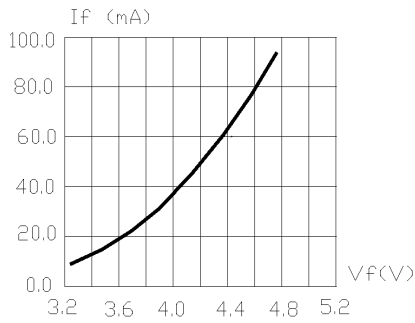


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

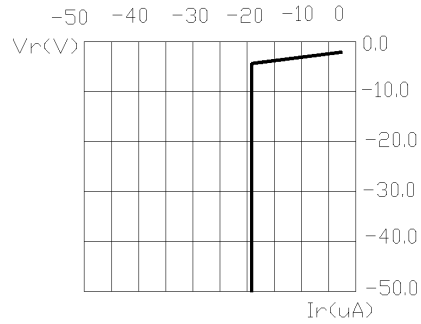


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

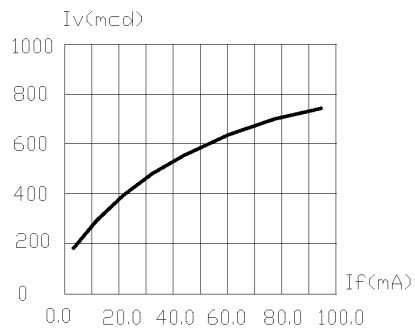


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

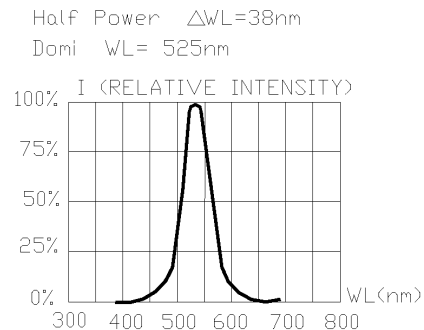


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

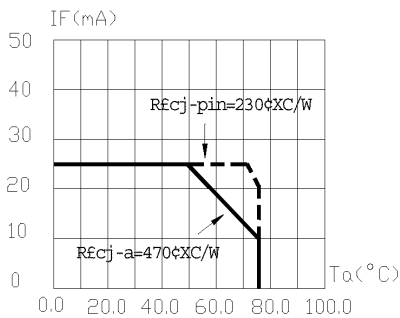


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE. DERATING BASED ON $T_{jmax} = 95^{\circ}\text{C}$

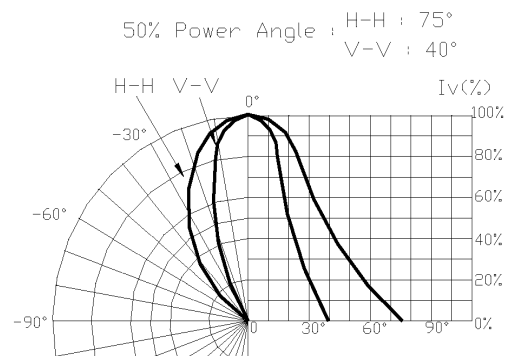
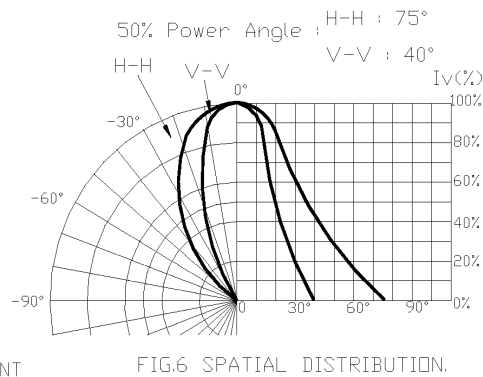
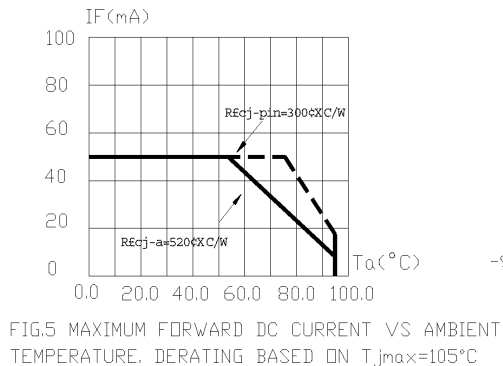
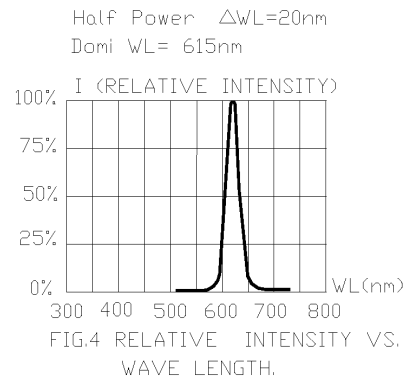
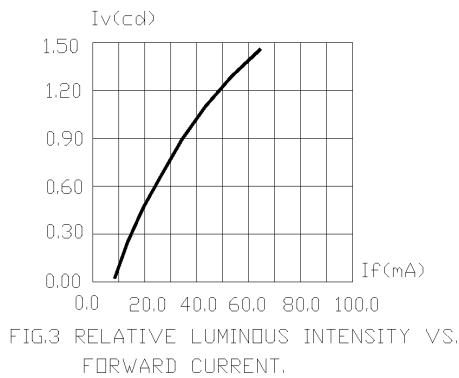
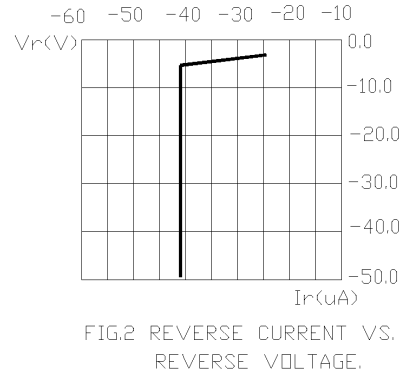
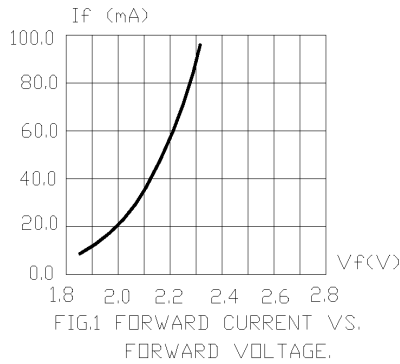


FIG.6 SPATIAL DISTRIBUTION.

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

LO561MSO3-75P Graphs



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

LO561MYL1-75Q Graphs

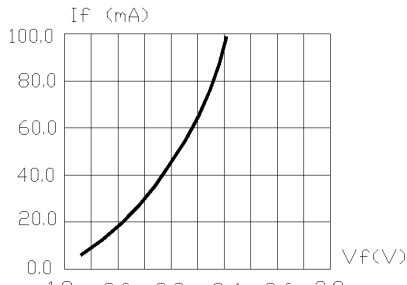


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

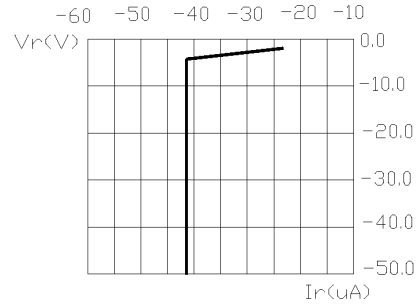


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

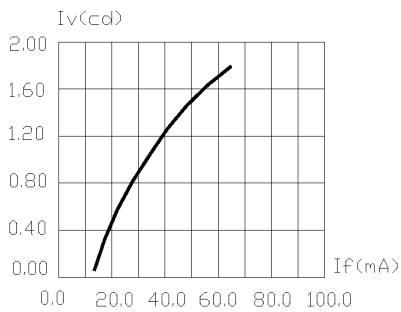


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

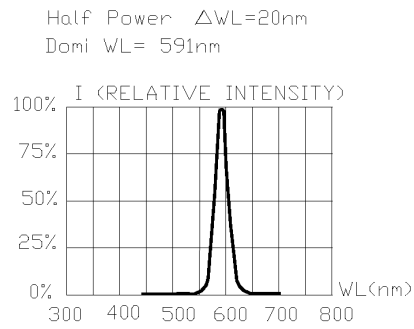


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

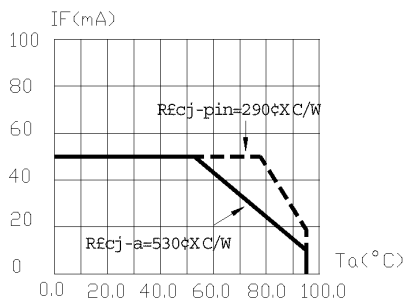


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax}=105^{\circ}C$

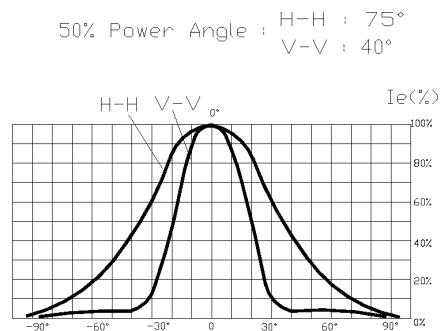


FIG.6 SPATIAL DISTRIBUTION.

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

LO561MYL3-75P Graphs

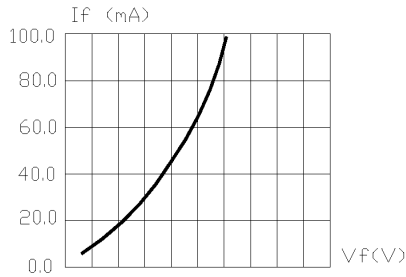


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

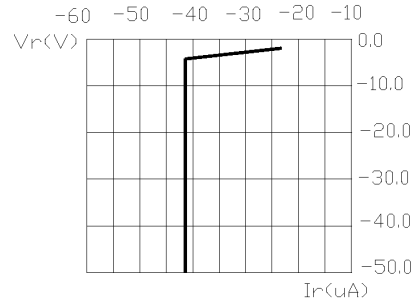


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

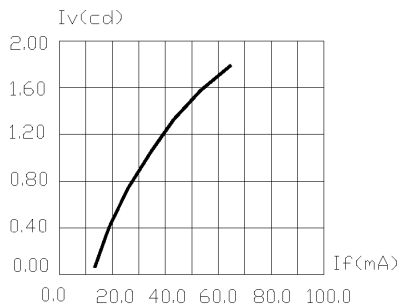


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

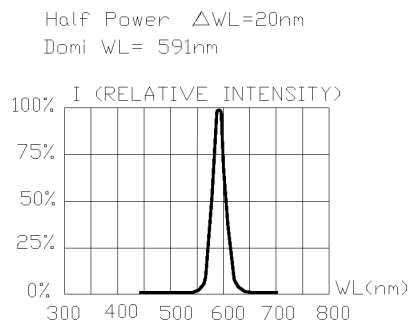


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

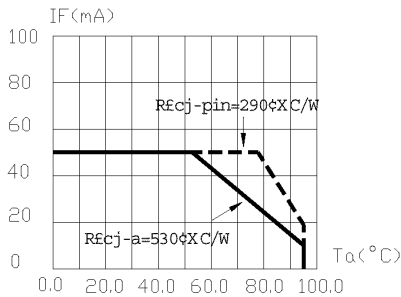


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax}=105^{\circ}C$

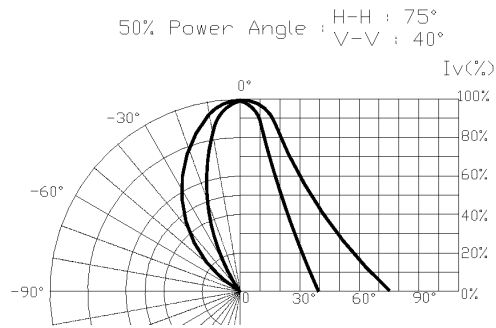


FIG.6 SPATIAL DISTRIBUTION.

- 1.Cathode PAD Area (0.18 × 0.18inch²)
- 2.Height above nominal seating plane in inches(0.3inch)