

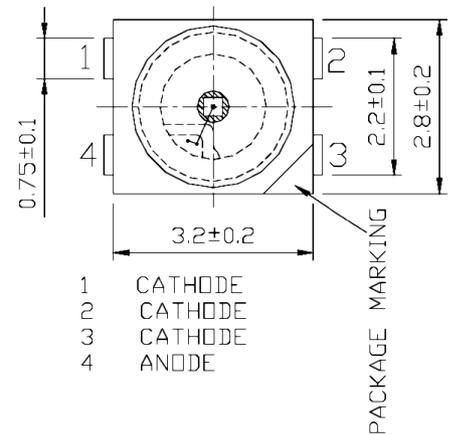
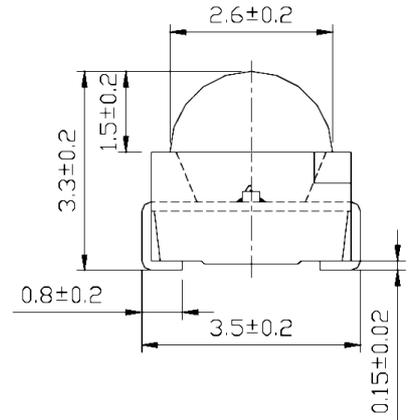
## LM2-TRO1-F1

### Features

High Intensity  
High Reliability

### Applications

Traffic Light  
Backlighting  
Automotive Use  
Marker Lights  
Signal and Symbol Luminaire



### Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I <sub>F</sub>	70	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	210.00	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +100	°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> =50mA	-	2.50	3.00	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =50mA	1800.00	2800.00	-	mcd
Viewing Angle	2θ <sup>1/2</sup>	-	-	60°	-	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =50mA	-	625	-	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =50mA	-	618	-	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =50mA	-	23	-	nm

## Graphs



FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

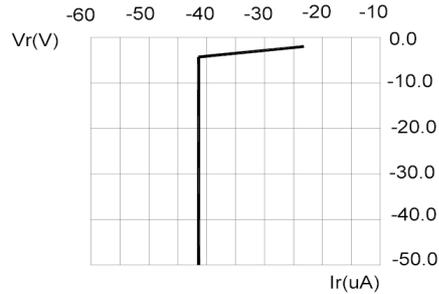


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

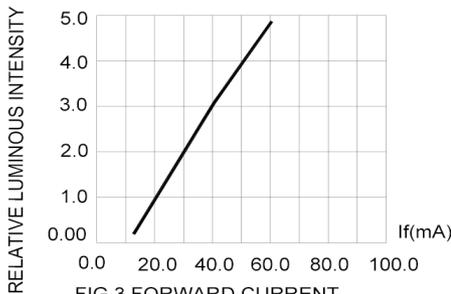


FIG.3 FORWARD CURRENT.

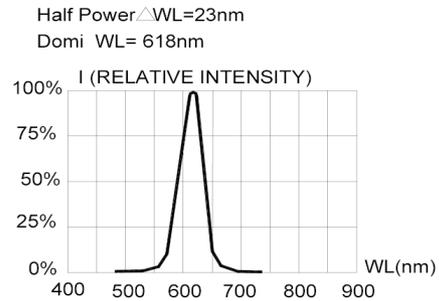


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

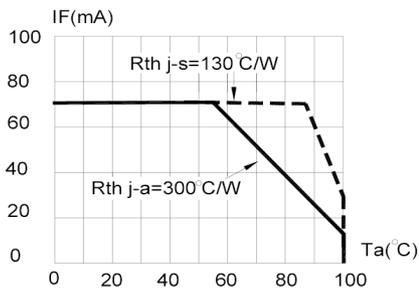


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON  $T_{jmax} = 110^{\circ}C$

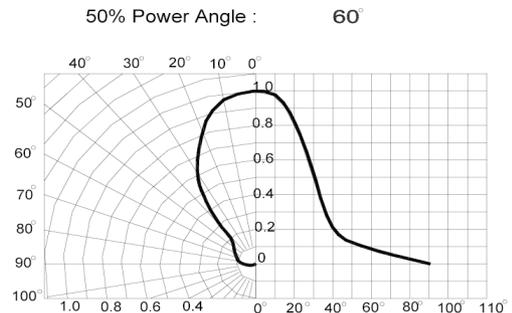


FIG.6 SPATIAL DISTRIBUTION.