

## LM1-THR1-11

### Applications

Indicators  
 Illuminations  
 LCD Back lights  
 Automobile Applications  
 RGB Full color displays

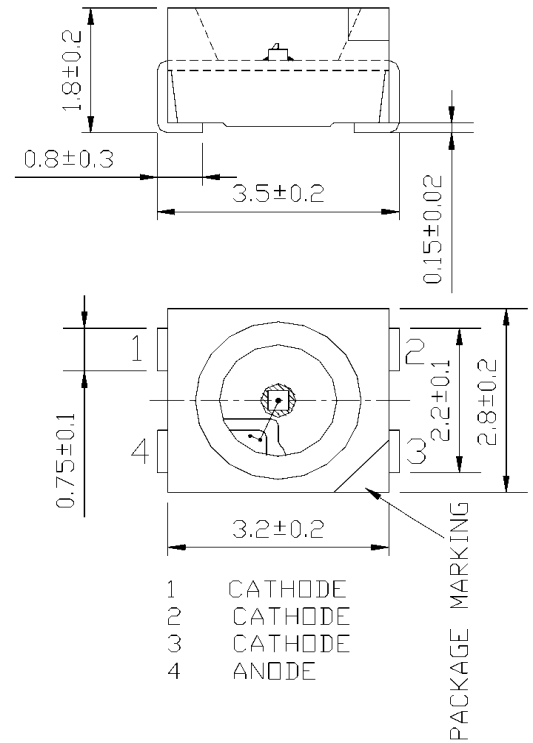
### Maximum Ratings (Ta=25°C)

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 3 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	μ A
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =50mA	560.00	1000.00	-	mcd
Viewing Angle	2θ <sup>1/2</sup>	-	-	120°	-	deg.
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =50mA	-	639	-	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =50mA	-	628	-	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> =50mA	-	23	-	nm

Specifications are subject to change without notice.



## LM1-THR1-11 Graphs

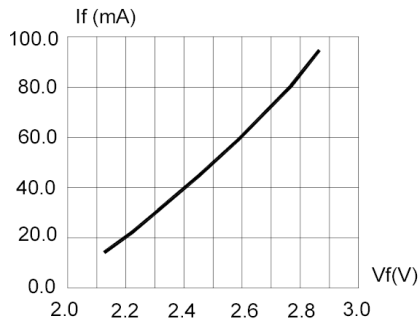


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

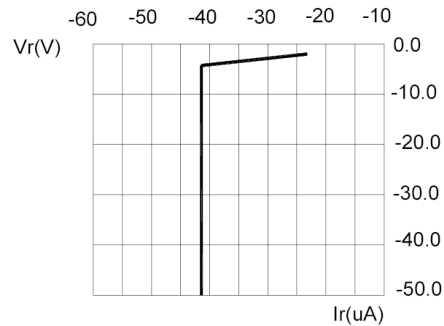


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

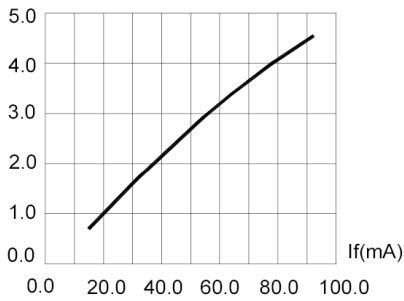


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

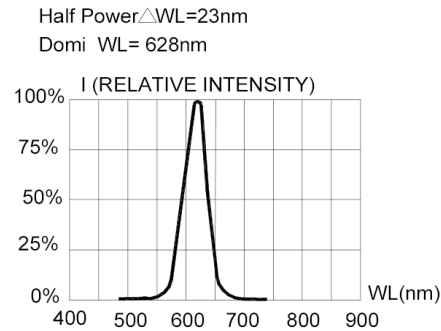


FIG.4 RELATIVE INTENSITY VS. WAVELENGTH.

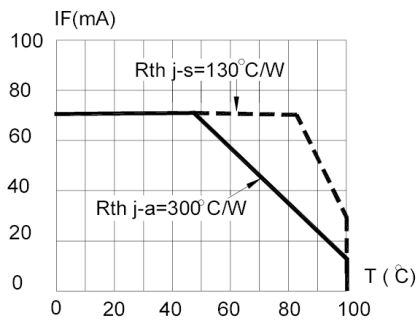


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON  $T_{jmax}=110^{\circ}$ C

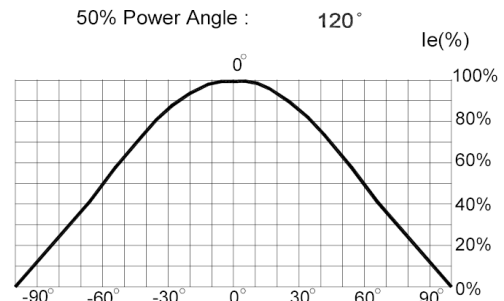


FIG.6 SPATIAL DISTRIBUTION.