

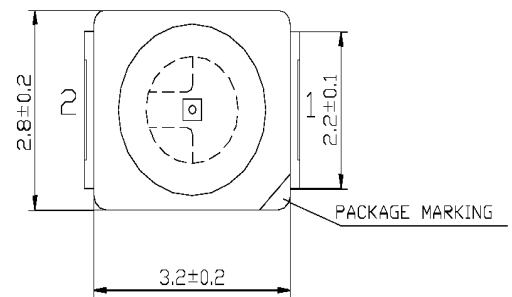
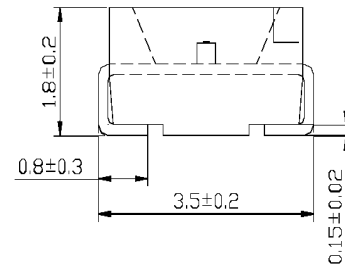
LM1-TYL1-01

Features

Industry Standard 1210 PLCC Package (3.2 x 2.8mm)
High Operating Temperature Range: $-40^{\circ} \sim +100^{\circ} \text{C}$
High luminosity with low power consumption
120° Viewing Angle
Wave and Re-flow Solderable

Applications

Indicators
Illuminators
LCD Backlights
Automobile Applications



Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	50	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	130.00	mW
Operating Temperature	T _{opr}	-40 ~ +100	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	T _{sol}	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 _F	I _F =20mA	--	2.10	2.60	V
Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Intensity	I _v	I _F =20mA	224.00	320.00	-	mcd
Viewing Angle	2θ ^{1/2}	-	-	120°	-	deg.
Peak Wavelength	λ _p	I _F =20mA	-	594	-	nm
Dominant Wavelength	λ _d	I _F =20mA	-	591	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	-	20	-	nm

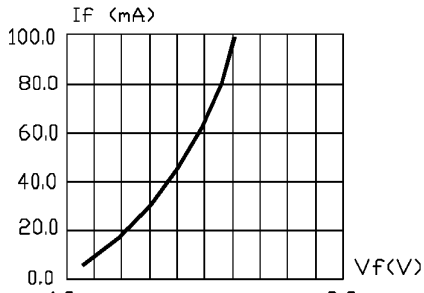


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

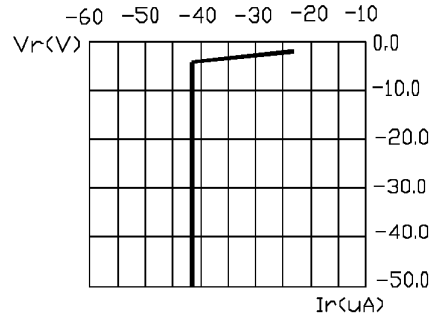


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

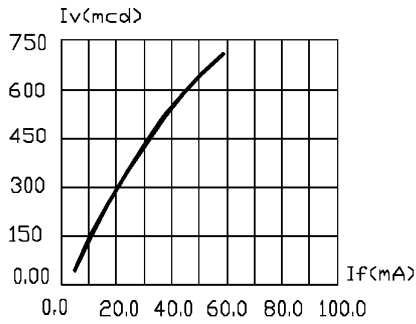


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

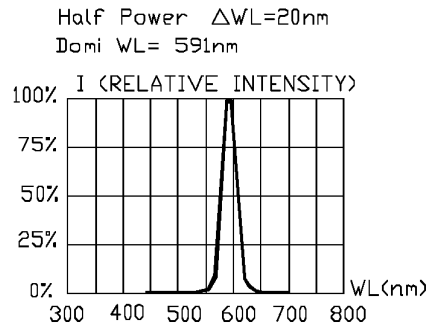


FIG.4 RELATIVE INTENSITY VS. WAVE LENGTH.

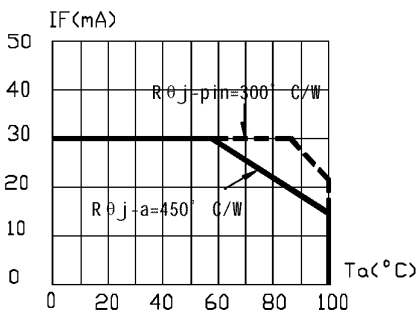


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{jmax}=125^{\circ}C$

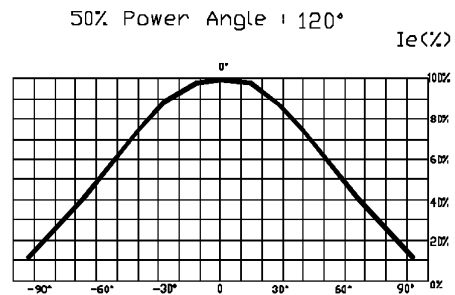


FIG.6 SPATIAL DISTRIBUTION.