

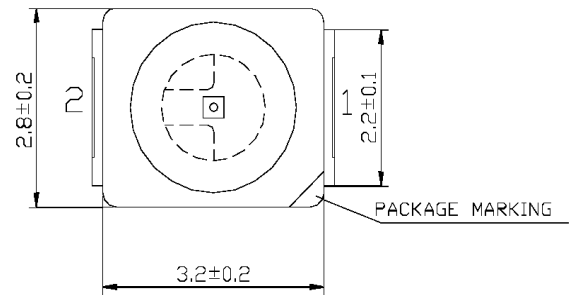
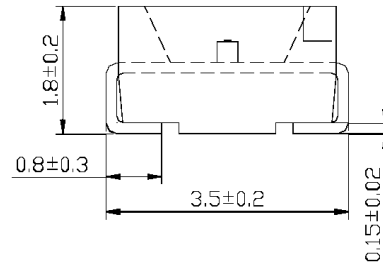
LM1-PWN-01-N1

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



1:CATHODE
2:ANODE

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	25	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	100.00	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	—	3.40	4.00	V
Reverse Current	I _R	V _R =5V	—	—	10	μA
Luminous Intensity	I _v	I _F =20mA	355.00	600.00	—	mcd
Viewing Angle	2θ ^{1/2}	—	—	120°	—	deg.
Peak Wavelength	λ _p	I _F =20mA	—	465	—	nm
Dominant Wavelength	λ _d	I _F =20mA	—	X=.31, Y=.32	—	nm
Spectral Line Half Width	Δλ	I _F =20mA	—	28	—	nm

LM1-PWN-01-N1 Graphs

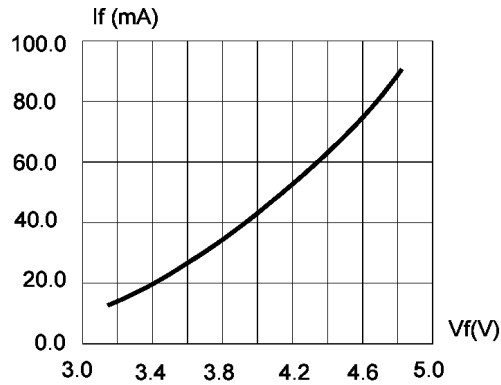


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

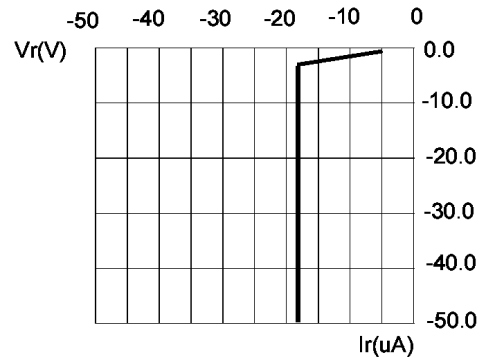


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

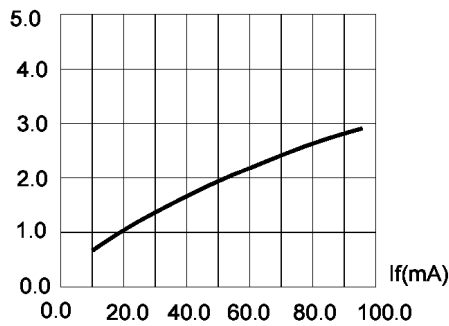


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

Half Power $\Delta\lambda = 150\text{nm}$

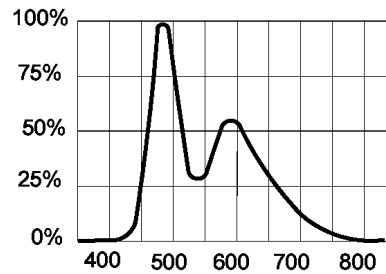


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

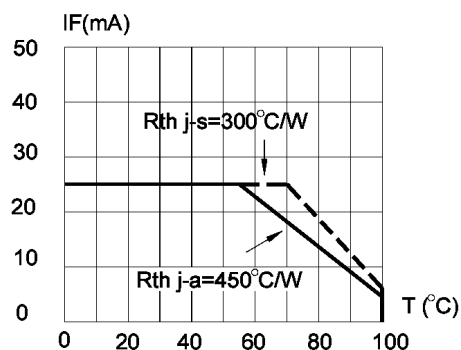


FIG.5 MAXIMUM FORWARD DC CURRENT VS TEMPERATURE. DERATING BASED ON $T_{j\max}=110^{\circ}\text{C}$

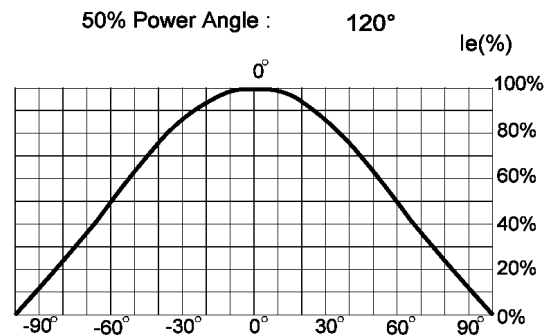


FIG.6 FAR FIELD PATTERN