

LM1-TRO1-01

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}	$-40 \sim +100$	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +100$	$^{\circ}\text{C}$
Soldering Temperature	T_{sol}	260	$^{\circ}\text{C}$
Soldering Time	—	for 3 sec. max	—

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	--	2.10	2.60	V
Reverse Current	I_R	$V_R=5\text{V}$	—	—	10	μA
Luminous Intensity	I_v	$I_F=20\text{mA}$	280.00	450.00	—	mcd
Viewing Angle	$2\theta^{1/2}$	—	—	120°	—	deg.
Peak Wavelength	λ_p	$I_F=20\text{mA}$	—	625	—	nm
Dominant Wavelength	λ_d	$I_F=20\text{mA}$	—	618	—	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F=20\text{mA}$	—	23	—	nm



