

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 7206R1D-ESA-C

Features

- * Electricity control IC embedded
- * Fancy, fun, hottest in the market.
- * Lens size with 5mm / 8mm / 10mm options
- * Viewing Angles 60°..
- * Operating voltage range : 3V-5V DC.
- * Blinking frequency : 2.4Hz
- * Frequency tolerance : $\pm 20\%$
- * RoHS compliant



Descriptions

- * New trend creations
- * Low energy consumptions
- * Low maintenance costs
- * High application design flexibility
- * High reliability

Usage Notes:

- * Surge will damage the LED
- * When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

- * Toys / sports utilities
- * Miniature key chains
- * Effect Lights.
- * Display / decoration lights .
- * Electronic displays and signals
- * Interior decoration lights.
- * Indicator lights.
- * Solar energy lights / garden lights



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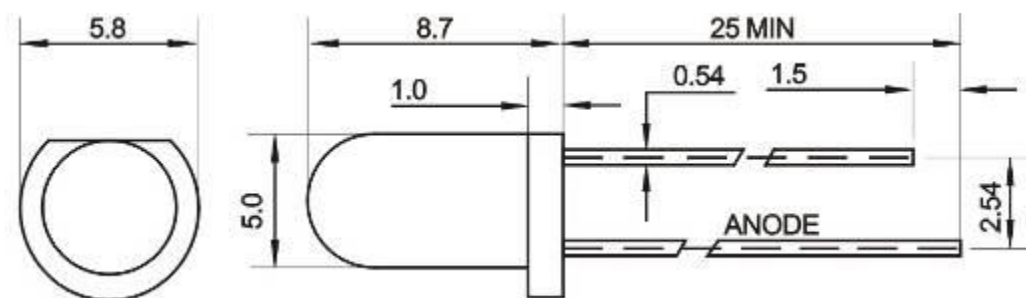
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Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
7206R1D-ESA-C	AlGaInP	Red	Red Diffused

Package Dimensions



UNIT:mm



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Absolute Maximum Rating ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Absolute Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	100	mW
Operating Temperature	T_{opr}	$-40\sim+80$	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	$-40\sim+100$	$^{\circ}\text{C}$
Soldering Heat (5s)	T_{sol}	260	$^{\circ}\text{C}$

Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	---	1500	2000	mcd	$I_F=20\text{mA}$ (Note1)
Viewing Angle	$2\theta_{1/2}$	---	60	---	Deg	(Note 2)
Peak Emission Wavelength	λ_p	620	630	635	nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	nm	$I_F=20\text{mA}$
Turn on time	Duty		1/20		ms	$I_F=20\text{mA}$
Blinking Frequency	Fled	1.8	---	2.0	Hz	$I_F=20\text{mA}$
Forward Voltage	V_F	3.0	---	5.0	V	$I_F=20\text{mA}$
Reverse Current	I_R	---	---	10	μA	$V_R=5\text{V}$

Note:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

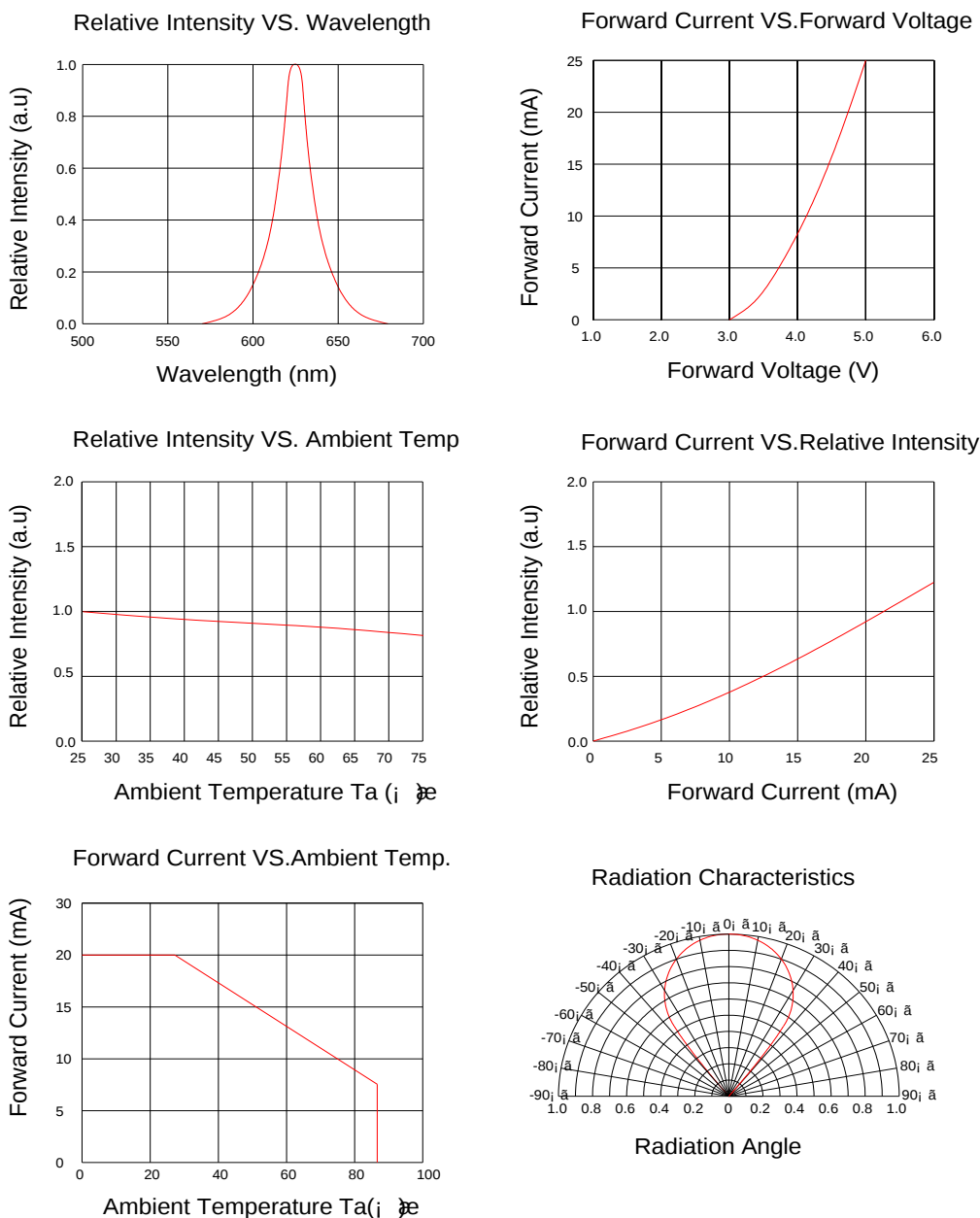


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Typical Electro-Optical Characteristics Curves



Notes

1. Above specification may be changed without notice. HYLET will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. HYLET assumes no responsibility for



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