



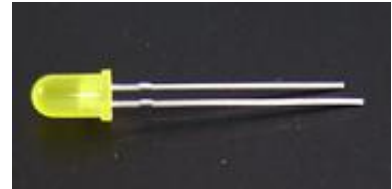
HUIYUAN ELECTRONIC CO.,LTD.

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 7206Y1D-ESA-C

Features

- Electricity control IC embedded
- Fancy, fun, hottest in the market.
- Lens size with 5mm / 8mm / 10mm options
- Viewing Angles 30°..
- Operating voltage range : 3V-5V DC.
- Blinking frequency : 1.8-2.2Hz
- 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



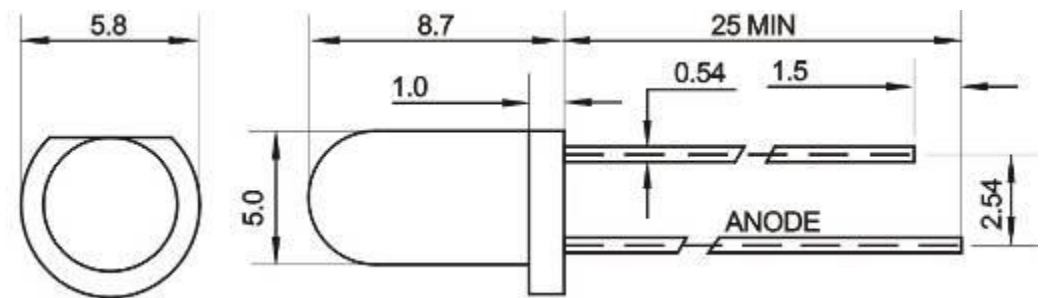
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Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
7206Y1D-ESA-C	AlGaInP	Yellow	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}	70	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	100	mW
Operating Temperature	T_{opr}	-40~+80	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40~+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	900	---	1100	mcd	$I_F=20\text{mA}$ (Note1)
Viewing Angle	$2\theta_{1/2}$	---	40		Deg	(Note 2)
Peak Emission Wavelength	λ_p	585	588	593	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	F_{led}	1.8	2.2	2.4	Hz	$I_F=20\text{mA}$
Forward Voltage	V_F	2.2	3.0	5.0	V	$I_F=20\text{mA}$
Reverse Current	I_R	---	---	10	μA	$V_R=5\text{V}$

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.



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Typical Electro-Optical Characteristics Curves

