

AllnGaP LED DICE

Part NO.: AOC-109YxA Series

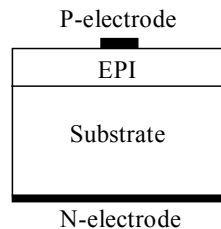
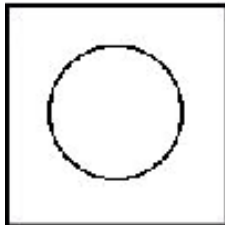
Features

- Yellow Color Emission
- Excellent performance and high efficiency
- Great reliability even in harsh environment

Description

AOC-109YxA series is a yellow color emitting AllnGaP LED grown by MOCVD technique. Its structure enables enhanced quantum efficiency and therefore a greater light intensity. This device is designed to suit the growing demand in the compact size electronic goods.

Chip Dimensions



Chip Size : 7.8mil×7.8mil±0.5mil
Bonding Pad : φ4.0mil±0.4mil
Chip Thickness : 6.5mil±1.0mil

Specification and Optical Characteristics

Measuring Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	1.70	-	2.30	V
Reverse Current	I_R	$V_R=-5\text{V}$	-	-	1.0	μA
Dominant Wavelength	λ_d	$I_F=20\text{mA}$	582	-	598	nm
Max. Junction Temperature	T_{max}	-	≤ 115			$^{\circ}\text{C}$
Max. DC forward current	I_F	$T_a = 25^{\circ}\text{C}$	≤ 30			mA
Max. pulse forward current (Pulse width 0.1 msec, frequency=1 kHz.)	I_{fm}	$T_a = 25^{\circ}\text{C}$	≤ 60			mA
Storage temperature	T_{stg}	Chip on tape	0 ~ 40			$^{\circ}\text{C}$
		Only chip	-40 ~ 80			

Available Dominate Wavelength and Iv Matrix

Part No.	Wavelength Range	≥ 40 mcd	≥ 50 mcd	≥ 60 mcd	≥ 70 mcd	≥ 80 mcd	≥ 90 mcd	≥ 100 mcd	≥ 110 mcd	≥ 120 mcd	≥ 130 mcd
YSA	582 ~ 592 nm	-	D	E	F	G	H	I	J	-	-
YLA	590 ~ 598 nm	-	D	E	F	G	H	I	J	K	-

Not:

1. All measurements are done with AOC's standard testing equipment.
2. Luminance intensity is measured on bare chip.
3. Above contents are subject to change without notice.
4. Special requests are also welcome, please contact AOC's sale representative for any request.