

# AllnGaP LED DICE

## Part NO.: AOC-109YxA-4mil Series

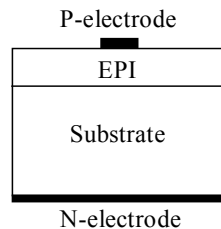
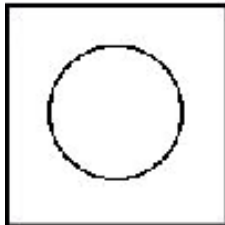
### Features

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

### Description

AOC-109YxA-4mil 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 : 7.7mil×7.7mil±0.5mil  
Bonding Pad : φ4.0mil±0.4mil  
Chip Thickness : 4.0mil±1.0mil

### Specification and Optical Characteristics

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

### Available Dominate Wavelength and Iv Matrix

Part No.	Wavelength Range	$\geq 40$	$\geq 50$	$\geq 60$	$\geq 70$	$\geq 80$	$\geq 90$	$\geq 100$	$\geq 110$	$\geq 120$	$\geq 130$
		mcd	mcd	mcd	mcd	mcd	mcd	mcd	mcd	mcd	mcd
YSA-4	582 ~ 592 nm	-	D	E	F	G	H	I	J	-	-
YLA-4	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.