

# AllnGaP LED DICE

## Part NO.: AOC-108YxA-4mil Series

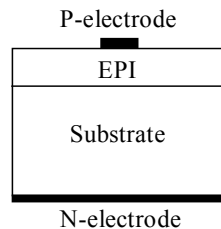
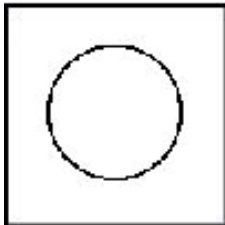
### Features

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

### Description

AOC-108YxA-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 : 6.3mil×6.3mil±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	$I_F$	$T_a = 25^{\circ}C$	$\leq 20$			mA
Max. pulse forward current (Pulse width 0.1 msec, frequency=1 kHz.)	$I_{fm}$	$T_a = 25^{\circ}C$	$\leq 40$			mA
Storage temperature	$T_{stg}$	Chip on tape	0 ~ 40			$^{\circ}C$
		Only chip	-40 ~ 80			

### Available Dominate Wavelength and Iv Matrix

Minimum Intensity (@20mA)	$IV \geq 20mcd$	$IV \geq 30mcd$	$IV \geq 40mcd$	$IV \geq 50mcd$	$IV \geq 60mcd$	$IV \geq 70mcd$	$IV \geq 80mcd$	$IV \geq 90mcd$
Grade	A	B	C	D	E	F	G	H

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.
5. YxA represents anyone of YSA(582nm~592nm) and YLA(590nm~598nm).