

# AllnGaP LED DICE

## Part NO.: AOC-109GLA Series

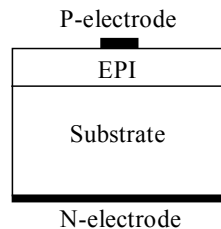
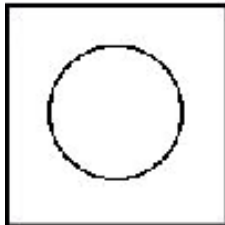
### Features

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

### Description

AOC-109GxA series is a green 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	$V_F$	$I_F=20mA$	1.70	-	2.30	V
Reverse Current	$I_R$	$V_R=-5V$	-	-	1.0	$\mu A$
Dominant Wavelength	$\lambda_d$	$I_F=20mA$	550	-	566	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	$\geq 5$ mcd	$\geq 10$ mcd	$\geq 15$ mcd	$\geq 20$ mcd	$\geq 30$ mcd	$\geq 40$ mcd	$\geq 50$ mcd
109 GLA	550 ~ 566 nm	X1	X2	X3	-	-	-	-

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.