

AllnGaP LED DICE

Part NO.: AOC-109RxB-4mil Series

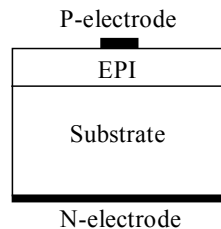
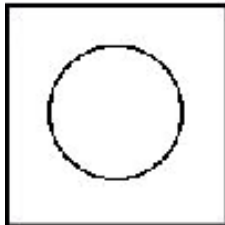
Features

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

Description

AOC-109RxB-4mil series is a red 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	μA
Dominant Wavelength	λ_d	$I_F=20mA$	616	-	645	nm
Max. Junction Temperature	T_{max}	-	≤ 115			$^{\circ}C$
Max. DC forward current	I_F	$T_a = 25^{\circ}C$	≤ 30			mA
Max. pulse forward current (Pulse width 0.1 msec, frequency=1 kHz.)	I_{fm}	$T_a = 25^{\circ}C$	≤ 60			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)	$IV \geq 20mcd$	$IV \geq 30mcd$	$IV \geq 40mcd$	$IV \geq 50mcd$	$IV \geq 60mcd$	$IV \geq 70mcd$	$IV \geq 80mcd$
Grade	A	B	C	D	E	F	G

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. RxB represents anyone of RSB(616nm-625nm), RMB(620nm-630nm), RLB(625nm-635nm) and RRB(635nm-645nm).