

AllnGaP LED DICE

Part NO.: AOC-820RxM-Au Series

PRELIMINARY

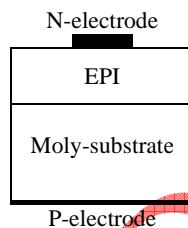
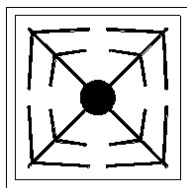
Features

- Red color emission
- Excellent performance & high efficiency
- Great reliability even in harsh environment
- Mirror reflector to increase efficiency

Description

AOC-820RxM series is a red/orange color emitting AllnGaP LED grown by MOCVD technique. Its structure enables enhanced quantum efficiency; the mirror reflector greatly increases the light extraction efficiency and therefore a greater light intensity. This device is designed for ultra-high brightness (UHB) automobile, display, and consumer electronic applications.

Chip Dimensions



Emitting Area : 20mil×20mil ± 1mil

Bonding Pad : φ100μm ±10μm

Chip Thickness : 100μm ±10μm

Electrical and Optics Characteristics

Measuring Item	Symbol	Condition	Min	Typ.	Max	Unit
Forward Voltage	V_F	$I_F=150\text{mA}$	1.90	-	2.50	V
Reverse Current	I_R	$V_R=5\text{V}$	-	-	1.0	μA
Dominant Wavelength	λ_d	$I_F=150\text{mA}$	618	-	627	nm
Max. Junction Temperature	T_{max}	-	≤ 125			$^{\circ}\text{C}$
Max. DC forward current	I_f	$T_a = 25^{\circ}\text{C}$	≤ 150			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	$\geq 4000\text{mcd}$	$\geq 4500\text{mcd}$	$\geq 5000\text{mcd}$
820 RMM	618 ~ 627 nm	Y400	Y450	Y500

Note:

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. Characteristics curves are measured within TO-46 package, different result may caused by packaging method.

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