

# AllnGaP LED DICE

## Part NO.: AOC-842RxM-Au Series

**PRELIMINARY**

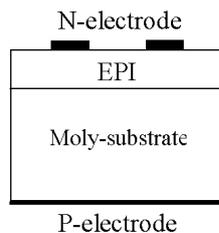
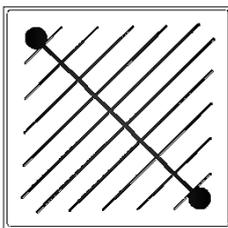
### Features

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

### Description

AOC-842RxM 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 : 42mil×42mil ± 1mil

Bonding Pad : φ106μm ± 5μm

Chip Thickness : 100μm ±10μm

### Electrical and Optics Characteristics

Measuring Item	Symbol	Condition	Min	Typ.	Max	Unit
Forward Voltage	$V_F$	$I_F=350\text{mA}$	1.90	-	3.00	V
Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	1.0	$\mu\text{A}$
Dominant Wavelength	$\lambda_d$	$I_F=350\text{mA}$	618	-	627	nm
Max. Junction Temperature	$T_{\text{max}}$	-	$\leq 125$			$^{\circ}\text{C}$
Max. DC forward current	$I_f$	$T_a = 25^{\circ}\text{C}$	$\leq 700$			mA
Storage temperature	$T_{\text{stg}}$	Chip on tape	0 ~ 40			$^{\circ}\text{C}$
		Only chip	-40 ~ 80			

### Available Dominate Wavelength and Iv Matrix

Part No.	Wavelength	$\geq 11000\text{mcd}$	$\geq 12000\text{mcd}$	$\geq 13000\text{mcd}$	$\geq 14000\text{mcd}$	$\geq 15000\text{mcd}$	$\geq 16000\text{mcd}$	$\geq 17000\text{mcd}$
842 RMM	618 ~ 627	Y1100	Y1200	Y1300	Y1400	Y1500	Y1600	Y1700

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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