

AlInGaP LED DICE

Part NO.: AOC-812YxM-Au Series

PRELIMINARY

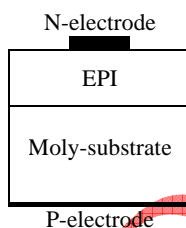
Features

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

Description

AOC-812YxM series is a yellow color emitting AlInGaP 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 : 12mil×12mil ± 1mil

Bonding Pad : $\phi 100\mu\text{m} \pm 10\mu\text{m}$

Chip Thickness : $100\mu\text{m} \pm 10\mu\text{m}$

Electrical and Optics Characteristics

Measuring Item	Symbol	Condition	Min	Typ.	Max	Unit
Forward Voltage	V _F	I _F =20mA	1.90	-	2.40	V
Reverse Current	I _R	V _R =5V	-	-	1.0	μ A
Dominant Wavelength	λd	I _F =20mA	584	-	597	nm
Max. Junction Temperature	T _{max}	-	125			
Max. DC forward current	I _f	T _a = 25	70			mA
Storage temperature	T _{stg}	Chip on tape	0 ~ 40			
		Only chip	-40 ~ 80			

Available Dominate Wavelength and Iv Matrix

Part No.	Wavelength Range	$\geq 520 \text{ mcd}$	$\geq 600 \text{ mcd}$	$\geq 700 \text{ mcd}$
812 YxM	584 ~ 597 nm	Y52	Y60	Y70

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.