Arima Optoelectronics
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Cat No.: 7-1S-2000-066
Revision: P0

AlInGaP LED DICE

Part NO.: AOC-820YxM-Au Series

PRELIMINARY

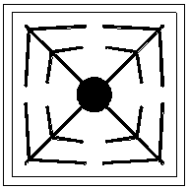
Features

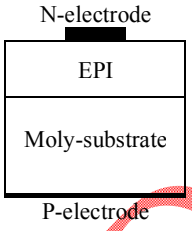
- Yellow color emission
- Excellent performance & high efficiency
- Great reliability even in harsh environment
- Mirror reflector to increase efficiency

Description

AOC-820YxM 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：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=150mA	1.75	-	2.60	V
Reverse Current	I_R	V_R=5V	-	-	1.0	μA
Dominant Wavelength	λd	I_F=150mA	584	-	597	nm
Max. Junction Temperature	T_{max}	-	≦ 125			℃
Max. DC forward current	I_f	Ta = 25℃	≦ 150			mA
Storage temperature	T_{stg}	Chip on tape	0 ~ 40			℃
		Only chip	-40 ~ 80			

Available Dominate Wavelength and Iv Matrix

Part No.	Wavelength	≥5000mcd	≥5500mcd	≥6000mcd	≥6500mcd
820 YxM	584 ~ 597 nm	Y500	Y550	Y600	Y650

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.
6. The IV Bin Y500 is comparable to Epistar PX20 6300mcd.