Arima Optoelectronics
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Cat No.: 7-1S-1000-047
Revision: 2

AlInGaP LED DICE

Part NO.: AOC-112YGxA Series

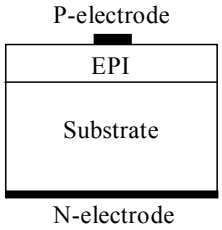
Features

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

Description

AOC-112YGxA series is a yellow green color emitting AlInGaP 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：10.8mil×10.8mil±0.5mil
Bonding Pad：ϕ4.0mil±0.4mil
Chip Thickness：6.5mil±1.0mil

Specification and Optical Characteristics

Measuring Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	1.70	-	2.20	V
Reverse Current	I_R	V_R=-5V	-	-	1.0	μA
Dominant Wavelength	λd	I_F=20mA	567	-	577	nm
Max. Junction Temperature	T_{max}	-	≦ 115			℃
Max. DC forward current	I_f	Ta = 25℃	≦ 50			mA
Max. pulse forward current (Pulse width 0.1 msec, frequency=1 kHz.)	I_{fm}	Ta = 25℃	≦ 100			mA
Storage temperature	T_{stg}	Chip on tape	0 ~ 40			℃
		Only chip	-40 ~ 80			

Available Dominate Wavelength and Iv Matrix

Minimum Intensity (@20mA)	IV ≥ 30mcd	IV ≥ 40mcd	IV ≥ 50mcd	IV ≥ 60mcd	IV ≥ 70mcd
Grade	-	C	D	E	-

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. YGxA represents anyone of YGSA(567nm-573nm IV=<60mcd) and YGLA(571nm-577nm).