Arima Optoelectronics
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Cat No.: 7-1S-2000-069
Revision: P0

AlInGaP LED DICE

Part NO.: AOC-812RxM-Au Series

PRELIMINARY

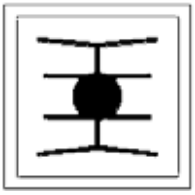
Features

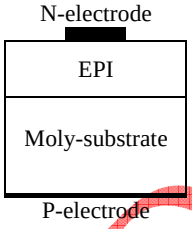
- Red color emission
- Excellent performance & high efficiency
- Great reliability even in harsh environment
- Mirror reflector to increase efficiency

Description

AOC-812RxM series is a red/orange 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：ϕ100μm ±10μm
Chip Thickness：100μm ±10μm

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	μA
Dominant Wavelength	λd	I_F=20mA	618	-	627	nm
Max. Junction Temperature	T_{max}	-	≦ 125			℃
Max. DC forward current	I_f	Ta = 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	≥520mcd	≥600mcd	≥700mcd
812 RMM	618 ~ 627 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.