

# AllnGaP LED DICE

PRELIMINARY

## Part NO.: AOC-S20RxM-65 Series

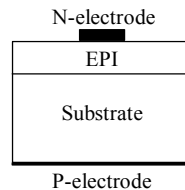
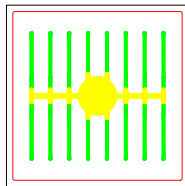
### Features

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

### Description

AOC-S20RxM-65 series is a red 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 ultrahigh brightness (UHB) automobile, display, and consumer electronic applications.

### Chip Dimensions



Chip Size : 508 $\mu$ m $\times$ 508 $\mu$ m  $\pm$  25 $\mu$ m  
 Bonding Pad :  $\phi$ 106 $\mu$ m  $\pm$  10 $\mu$ m  
 Chip Thickness : 165 $\mu$ m  $\pm$  25 $\mu$ m

### Electrical and Optics Characteristics

Measuring Item	Symbol	Condition	Min	Typ.	Max	Unit
Forward Voltage	$V_F$	$I_F=150\text{mA}$	1.75	-	2.65	V
Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	1.0	$\mu\text{A}$
Dominant Wavelength	$\lambda_d$	$I_F=150\text{mA}$	616	-	630	nm
Max. Junction Temperature	$T_{\text{max}}$	-	-	-	120	$^{\circ}\text{C}$

### Available Dominate Wavelength and Iv Matrix

Part No.	Wavelength Range	$\geq 3000$ mcd	$\geq 3500$ mcd	$\geq 4000$ mcd
S20RSM-65	616 ~ 625 nm	-	Y350	Y400
S20RMM-65	620 ~ 630 nm	Y300	Y350	Y400

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.