

BEELED -

MODEL: 5013R1R2C-DHA

Features

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C.compatible/Low power consumption
- Pb free



Descriptions

- The LED lamps contain two integral chips and is available as both bicolor and bipolar types
- The Bright Red emitted by diodes of GaAsP/GaP and AlGaInP respectively
- Type of bipolar lamps are both White Diffused and Color diffused while the bicolor are White Diffused

Applications

- Status indicators
- Commercial use
- Advertising Signs
- Back lighting

Device Selection Guide

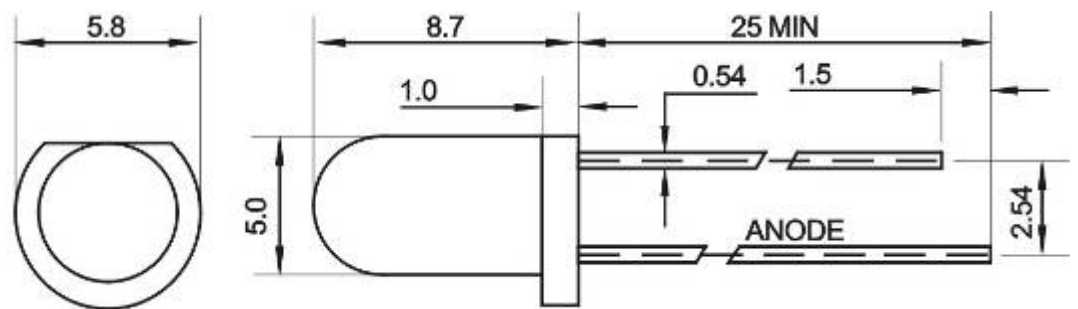
LED Part No.	Chip		Lens Color
	Material	Emitted Color	
5013R1R2C-DHA	AlGaInP	Red	Water clear
	GaAsP	Red	

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Package Dimensions



UNIT:mm

Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

Absolute Maximum Rating ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_{R}	5	V
Power Dissipation	P_{D}	140	mW
Operating Temperature	T_{opr}	-40~+80	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40~+100	$^{\circ}\text{C}$
Soldering Heat (5s)	T_{sol}	260	$^{\circ}\text{C}$

Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

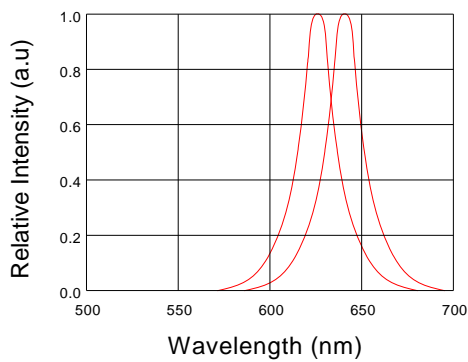
Parameter	Symbol	Device	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_{v}	Red	800	1100	1500	mcd	IF=20mA
		Red	250	400	600		
Viewing Angle	$2\theta_{1/2}$	Red	---	30	40	Deg	(Note 1)
		Red					
Peak Emission Wavelength	λ_{p}	Red	620	625	630	nm	IF=20mA
		Red	625	630	640		
Spectral Line Half-Width	$\Delta\lambda$	Red	25	30	35	nm	IF=20mA
		Red	25	30	50		
Forward Voltage	V_{F}	Red	1.7	2.2	2.3	V	IF=20mA
		Red	1.7	2.0	2.3		
Reverse Current	I_{R}		---	---	100	μA	VR=5V

Note:

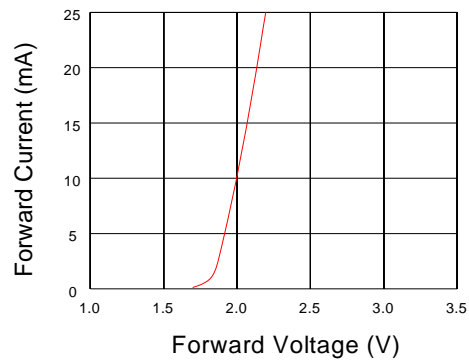
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

Typical Electro-Optical Characteristics Curves

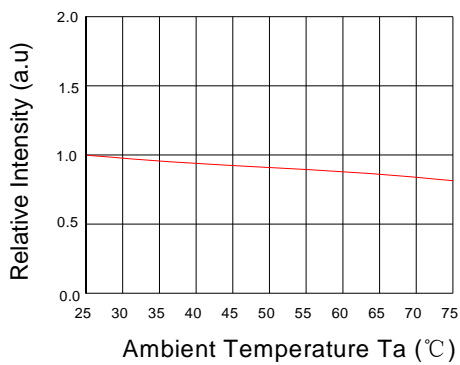
Relative Intensity VS. Wavelength



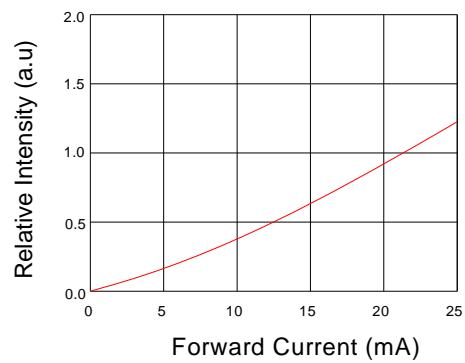
Forward Current VS. Forward Voltage



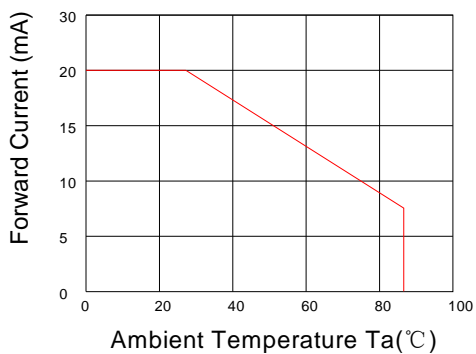
Relative Intensity VS. Ambient Temp



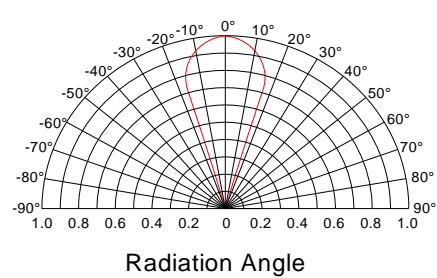
Forward Current VS. Relative Intensity



Forward Current VS. Ambient Temp.



Radiation Characteristics



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