

# JRGBC0128

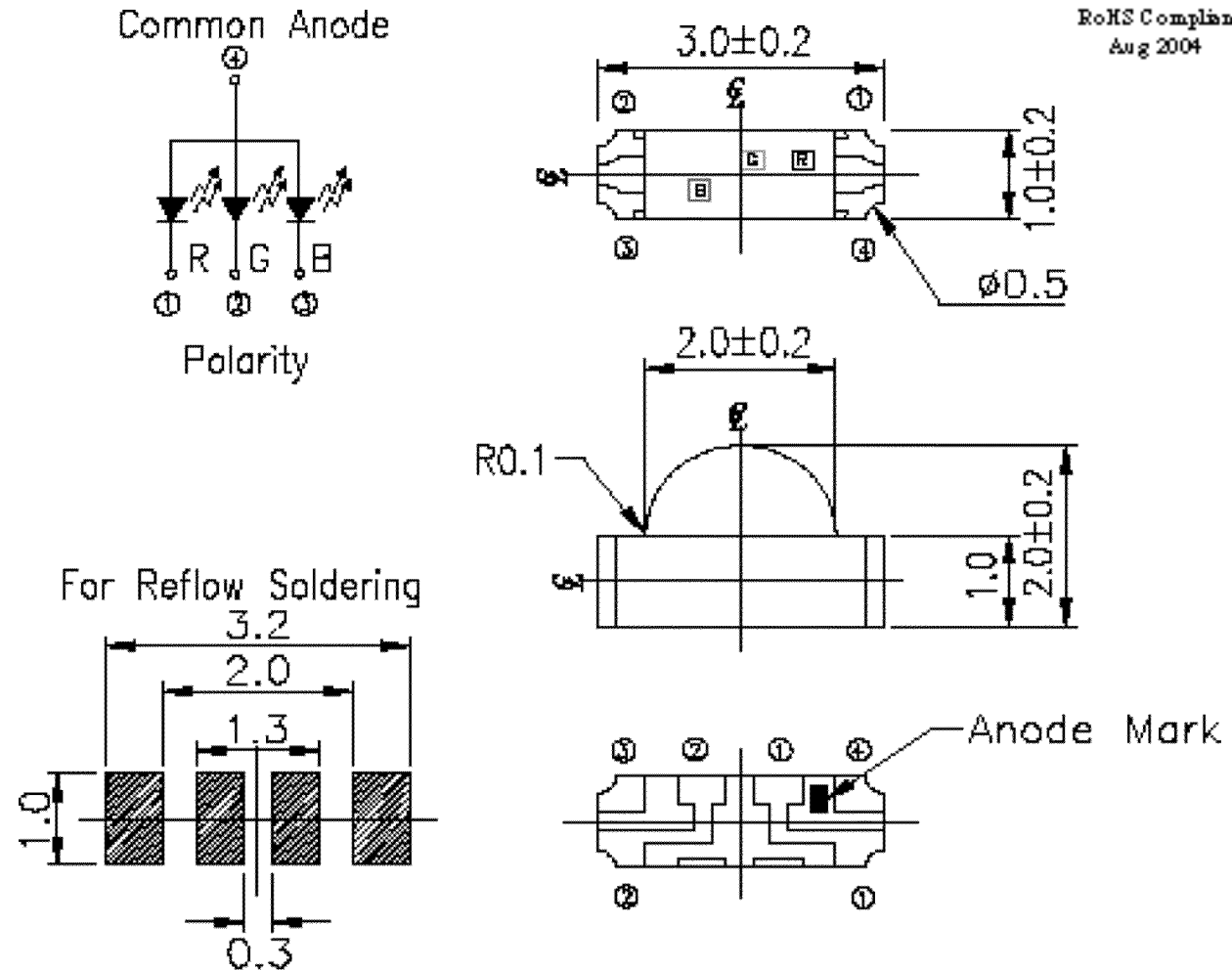
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These lamps are miniature chip type designed for surface mounting.



RoHS Compliant  
Aug 2004



PART NO.	Chip			Lens Color
		Material	Emitted Color	
JRGBC0128	R6	AlGaInP	Brilliant Red	Water Clear
	GH	InGaN	Brilliant Green	
	BH	InGaN	Blue	

\* Specifications subject to change without notice. Dimensions are in mm±0.1 unless stated otherwise.

**Absolute Maximum Ratings at  $T_a = 25\text{ }^\circ\text{C}$**

Parameter	Symbol	Rating	Units
Forward Current	$I_F$	R6 25	mA
		GH 25	
		BH 25	
Operating Temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +90	$^\circ\text{C}$
Soldering Temperature	$T_{sol}$	260 (for 5 seconds)	$^\circ\text{C}$
Power Dissipation	$P_d$	R6 60	mW
		GH 110	
		BH 110	
Peak Forward Current (Duty 1/10 @ 1KHz)	$I_F$ (Peak)	R6 60	mA
		GH 100	
		BH 100	
Reverse Voltage	$V_R$	5	V

**Electronic Optical Characteristics**

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	$I_v$	R6 57	90	—	mcd	$I_F = 20\text{ mA}$
		GH 112	180	—		
		BH 45	72	—		
Viewing Angle	$2\theta_{1/2}$	—	120	—	deg	$I_F = 20\text{ mA}$
Peak Wavelength	$\lambda_p$	R6 —	632	—	nm	$I_F = 20\text{ mA}$
		GH —	518	—		
		BH —	468	—		
Dominant Wavelength	$\lambda_d$	R6 —	624	—	nm	$I_F = 20\text{ mA}$
		GH —	525	—		
		BH —	470	—		
Spectrum Radiation Bandwidth	$\Delta\lambda$	R6 —	20	—	nm	$I_F = 20\text{ mA}$
		GH —	35	—		
		BH —	35	—		
Forward Voltage	$V_F$	R6 —	2.0	2.4	V	$I_F = 20\text{ mA}$
		GH 3.1	3.5	3.9		
		BH 3.2	3.5	3.9		
Reverse Current	$I_R$	R6 —	—	10	$\mu\text{A}$	$V_R = 5\text{ V}$
		GH —	—	50		
		BH —	—	50		

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