

# JRGC0158

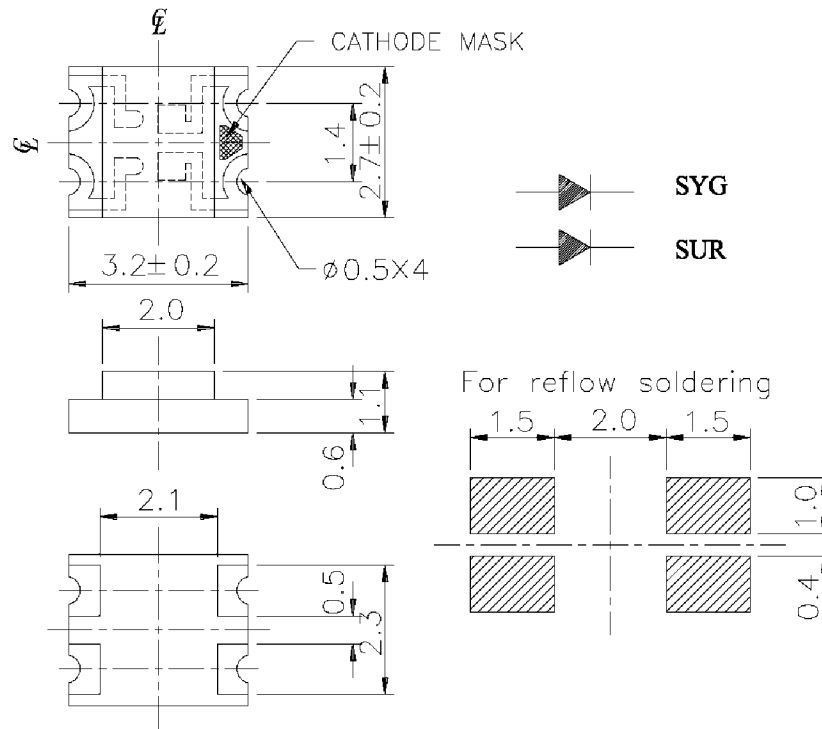
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These lamps are miniature chip type designed for surface mounting. They are of the so-called 1206 size, measuring approximately 2.7 x 3.2 mm.



RoHS Compliant  
Aug 2004



PART NO.	Chip		Lens Color
	Material	Emitted Color	
JRGC0158	AlGaInP	Hyper Red	Water Clear
	AlGaInP	Super Yellow Green	

\* 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	$I_F$	SUR 25	mA
		SYG 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)	$^\circ\text{C}$
Electrostatic Discharge	ESD	2000	V
Power Dissipation	$P_d$	SUR 60	mW
		SYG 60	
Peak Forward Current (Duty 1/10 @ 1KHz)	$I_F$ (Peak)	SUR 160	mA
		SYG 160	
Reverse Voltage	$V_R$	5	V

**Electronic Optical Characteristics**

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	$I_V$	SUR	—	2	mcd	$I_F = 2\text{ mA}$
		SYG	—	1		
	$I_V$	SUR	15	36	mcd	$I_F = 20\text{ mA}$
		SYG	10	15		
Viewing Angle	$2\theta_{1/2}$	—	140	—	deg	$I_F = 20\text{ mA}$
Peak Wavelength	$\lambda_p$	SUR	—	632	nm	$I_F = 20\text{ mA}$
		SYG	—	575		
Dominant Wavelength	$\lambda_d$	SUR	—	624	nm	$I_F = 20\text{ mA}$
		SYG	—	573		
Spectrum Radiation Bandwidth	$\Delta\lambda$	SUR	—	20	nm	$I_F = 20\text{ mA}$
		SYG	—	20		
Forward Voltage	$V_F$	SUR	—	2.0	V	$I_F = 20\text{ mA}$
		SYG	—	2.0		
Reverse Current	$I_R$	—	—	10	$\mu\text{A}$	$V_R = 5\text{ V}$

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