

JYGC0118

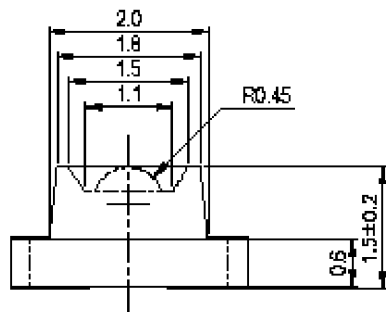
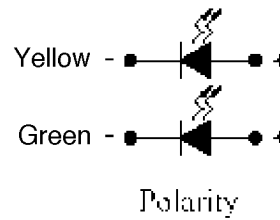
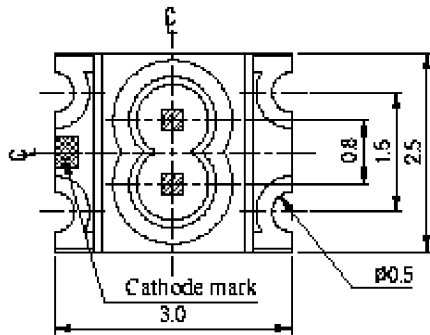
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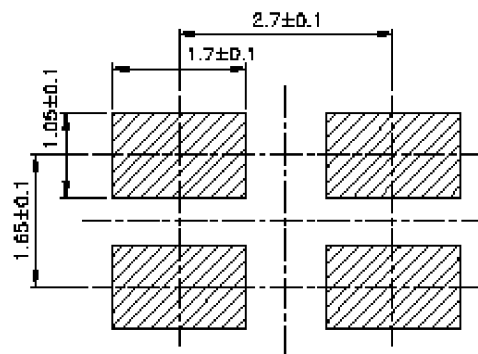
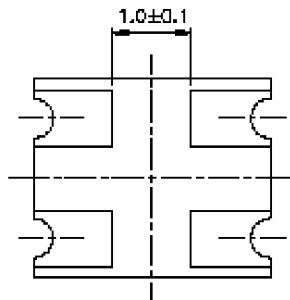
These lamps are miniature chip type designed for surface mounting and measure approximately 2.5 x 3 mm.



RoHS Compliant
Aug 2004



For reflow soldering (propose)



PART NO.	Chip		Lens Color
	Material	Emitted Color	
JYGC0118	AlGaInP	Super Yellow	Water Clear
	AlGaInP	Super Yellow Green	

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

IDEA, Inc., 1351 Titan Way, Brea, CA 92821 Ph:714-525-3302, 800-LED-IDEA; Fax: 714-525-3304 0507

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

Parameter	Symbol	Rating	Units
Forward Current	I_F	UY 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)	$^\circ\text{C}$
Power Dissipation	P_d	UY 60	mW
		SYG 60	
Peak Forward Current (Duty 1/10 @ 1KHz)	I_F (Peak)	UY 160	mA
		SYG 160	
Reverse Voltage	V_R	5	V

Electronic Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition	
Luminous Intensity	I_V	UY	—	3	mcd	$I_F = 2\text{ mA}$	
		SYG	—	1			
			UY	21	51	mcd	$I_F = 20\text{ mA}$
			SYG	14	21		
Viewing Angle	$2\theta_{1/2}$	—	60	—	deg	$I_F = 20\text{ mA}$	
Peak Wavelength	λ_p	UY	—	591	nm	$I_F = 20\text{ mA}$	
		SYG	—	575			
Dominant Wavelength	λ_d	UY	—	589	nm	$I_F = 20\text{ mA}$	
		SYG	—	573			
Spectrum Radiation Bandwidth	$\Delta\lambda$	UY	—	15	nm	$I_F = 20\text{ mA}$	
		SYG	—	20			
Forward Voltage	V_F	UY	—	2.0	V	$I_F = 20\text{ mA}$	
		SYG	—	2.0			
Reverse Current	I_R	—	—	10	μA	$V_R = 5\text{ V}$	

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