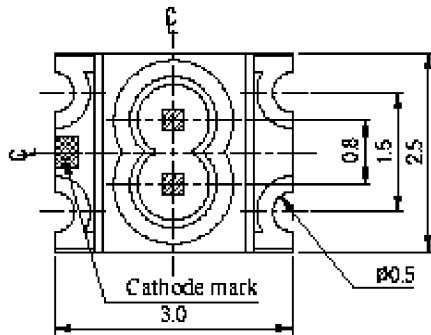


# JYBC0118

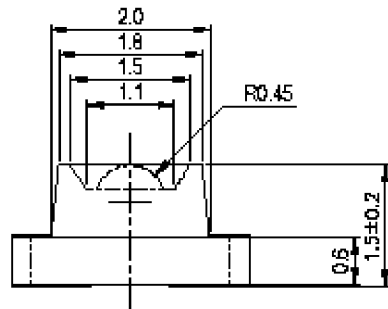
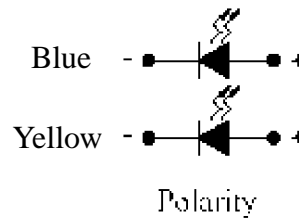
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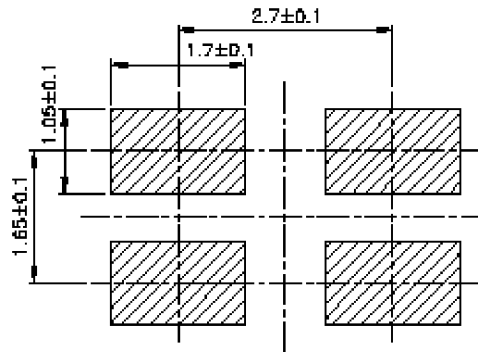
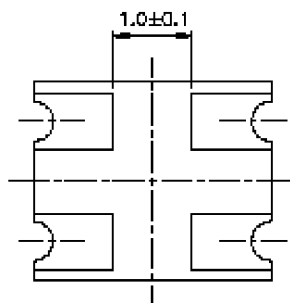
These lamps are miniature chip type designed for surface mounting and measure approximately 2.5 x 3 mm.



RoHS Compliant  
Aug 2004



For reflow soldering (propose)



PART NO.	Chip		Lens Color
	Material	Emitted Color	
JYBC0118	InGaN	Super Blue	Water Clear
	AlGaInP	Super Yellow	

\* 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	$I_F$	B 25	mA
		Y 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	B 150	V
		Y 2000	
Power Dissipation	$P_d$	B 110	mW
		Y 60	
Peak Forward Current (Duty 1/10 @ 1KHz)	$I_F$ (Peak)	B 100	mA
		Y 60	
Reverse Voltage	$V_R$	5	V

**Electronic Optical Characteristics**

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	$I_V$	B 72	120	—	mcd	$I_F = 20\text{ mA}$
		Y 97	145	—		
Viewing Angle	$2\theta_{1/2}$	—	60	—	deg	$I_F = 20\text{ mA}$
Peak Wavelength	$\lambda_p$	B —	468	—	nm	$I_F = 20\text{ mA}$
		Y —	591	—		
Dominant Wavelength	$\lambda_d$	B —	470	—	nm	$I_F = 20\text{ mA}$
		Y —	589	—		
Spectrum Radiation Bandwidth	$\Delta\lambda$	B —	35	—	nm	$I_F = 20\text{ mA}$
		Y —	15	—		
Forward Voltage	$V_F$	B —	3.5	4.0	V	$I_F = 20\text{ mA}$
		Y —	2.0	2.4		
Reverse Current	$I_R$	B —	—	50	$\mu\text{A}$	$V_R = 5\text{ V}$
		Y —	—	10		

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