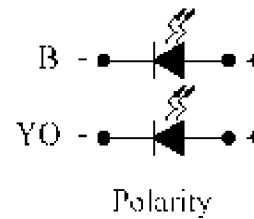
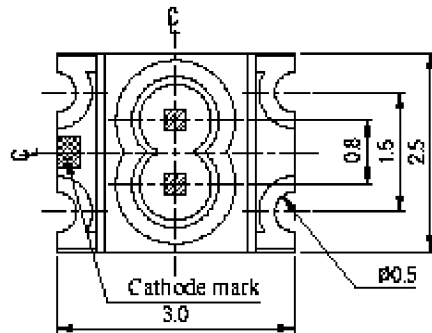


JYOBC0118

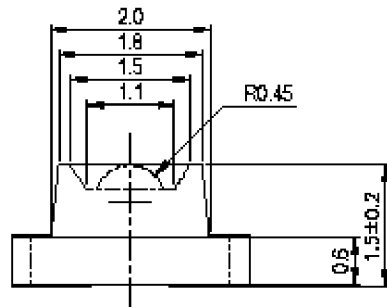
Page 1 of 2



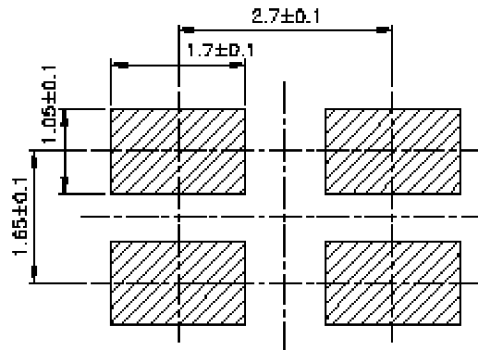
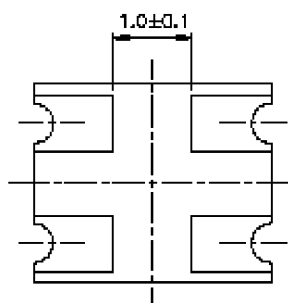
These lamps are miniature chip type designed for surface mounting and measure approximately 2.5 x 3 mm.



RoHS Compliant
Aug 2004



For reflow soldering (propose)



PART NO.	Chip		Lens Color
	Material	Emitted Color	
JYOBC0118	InGaN	Blue	Water Clear
	AlGaInP	Yellow Orange	

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

Electronic Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	I_V	B 80	130	—	mcd	$I_F = 20\text{ mA}$
		YO 145	213	—		
Viewing Angle	$2\theta_{1/2}$	—	60	—	deg	$I_F = 20\text{ mA}$
Peak Wavelength	λ_p	B —	468	—	nm	$I_F = 20\text{ mA}$
		YO —	611	—		
Dominant Wavelength	λ_d	B —	470	—	nm	$I_F = 20\text{ mA}$
		YO —	605	—		
Spectrum Radiation Bandwidth	$\Delta\lambda$	B —	35	—	nm	$I_F = 20\text{ mA}$
		YO —	20	—		
Forward Voltage	V_F	B —	3.5	4.3	V	$I_F = 20\text{ mA}$
		YO —	2.0	2.4		
Reverse Current	I_R	B —	—	50	μA	$V_R = 5\text{ V}$
		YO —	—	10		

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