

JYC0158

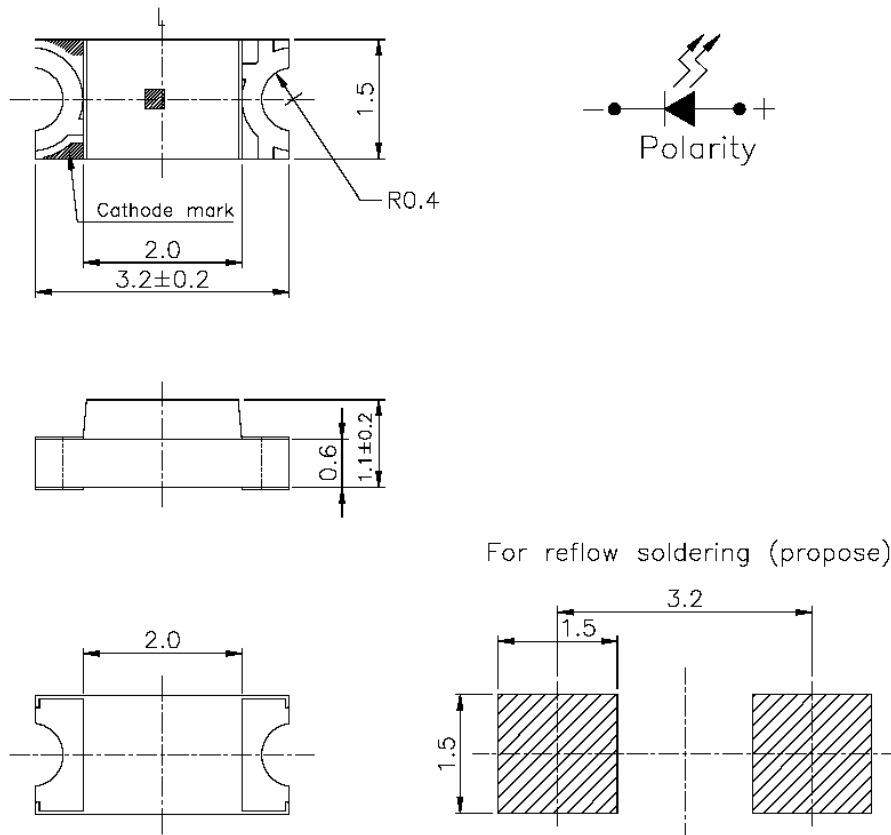
Page 1 of 3



The 0158 series lamps are miniature chip type designed for surface mounting. These lamps are of the so-called 1206 size and measure approximately 1.6 x 3.2 mm (single color).



RoHS Compliant
Aug 2004



PART NO.	Chip		Lens Color
	Material	Emitted Color	
JYC0158	AlGaInP	Brilliant Yellow	Water Clear

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



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

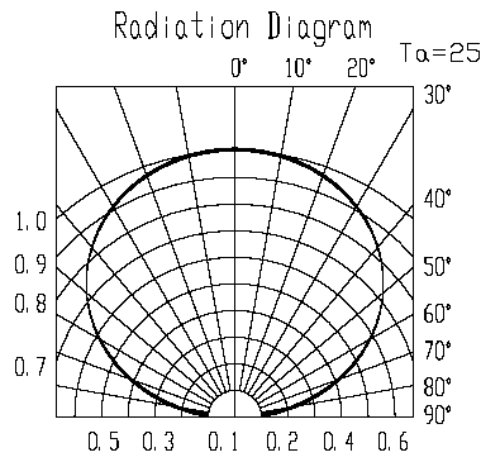
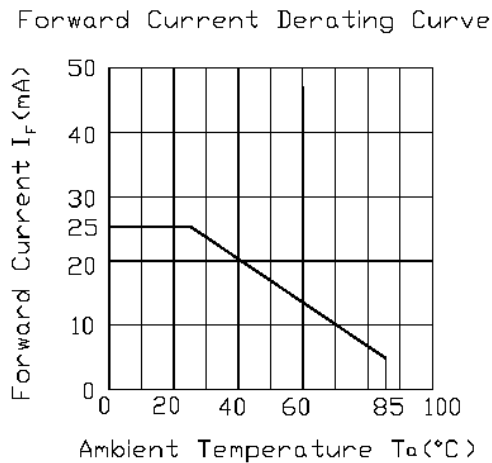
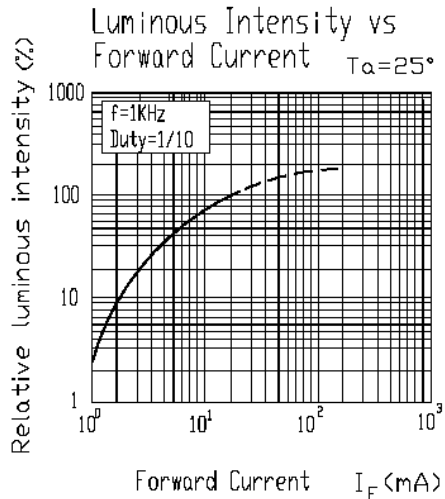
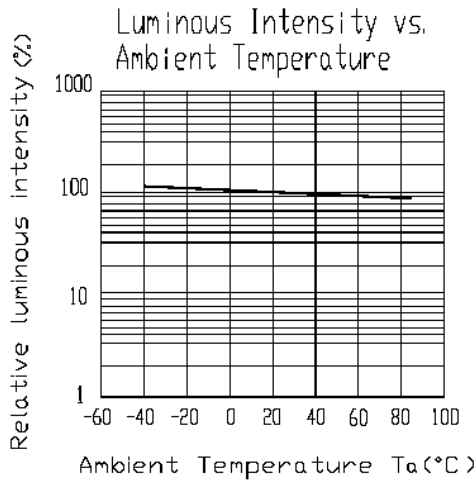
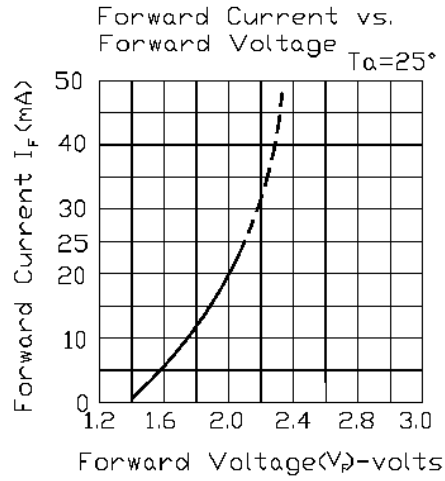
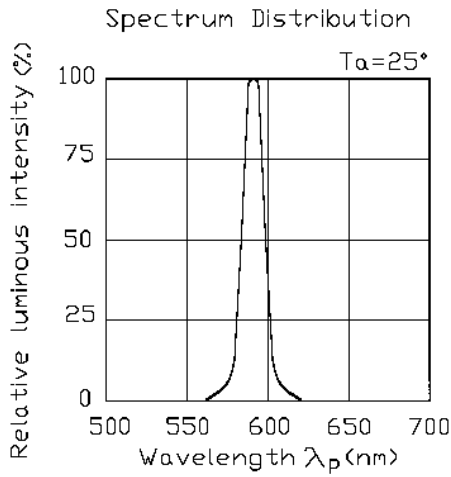
Parameter	Symbol	Rating	Units
Forward Current	I_F	25	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +90	$^\circ\text{C}$
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P_d	60	mW
Peak Forward Current (Duty 1/10 @ 1KHz)	I_{FP}	60	mA
Soldering Temperature	T_{sol}	Reflow Soldering: 260 $^\circ\text{C}$ for 10 sec. Hand Soldering: 350 $^\circ\text{C}$ for 3 sec.	

Electronic Optical Characteristics ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	I_V	15	39	—	mcd	$I_F = 20\text{ mA}$
Viewing Angle	$2\theta_{1/2}$	—	130	—	deg	$I_F = 20\text{ mA}$
Peak Wavelength	λ_p	—	591	—	nm	$I_F = 20\text{ mA}$
Dominant Wavelength	λ_d	—	589	—	nm	$I_F = 20\text{ mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$	—	15	—	nm	$I_F = 20\text{ mA}$
Forward Voltage	V_F	1.7	2.0	2.4	V	$I_F = 20\text{ mA}$
Reverse Current	I_R	—	—	10	μA	$V_R = 5\text{ V}$

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Typical Electro-Optical Characteristics Curves:



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