

# JGC0348

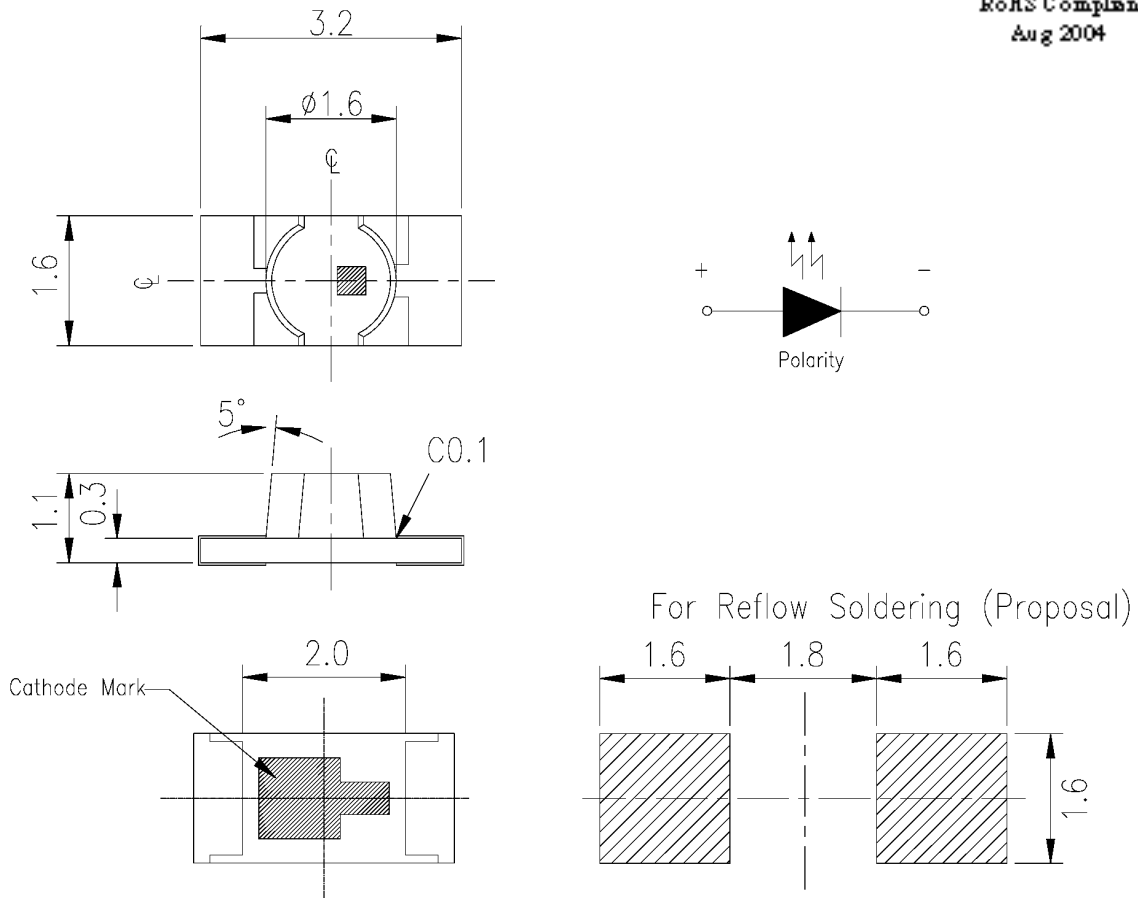
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The 0348 series is designed to mount to pads on the lower side of a PCB with the LED viewed through a hole. This has the benefit of maintaining all parts of the LED below the surface of the PCB, making it especially suitable for use with membrane overlays and applications where a smooth front surface is desired.



RoHS Compliant  
Aug 2004



PART NO.	Chip		Lens Color
	Material	Emitted Color	
JGC0348	AlGaInP	Super Yellow Green	Water Clear

\* 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	$I_F$	25	mA
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	$P_d$	60	mW
Peak Forward Current (Duty 1/10 @ 1KHz)	$I_F$ (Peak)	60	mA
Reverse Voltage	$V_R$	5	V

**Electronic Optical Characteristics**

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	$I_V$	11	16	—	mcd	$I_F = 20\text{ mA}$
Viewing Angle	$2\theta_{1/2}$	—	130	—	deg	$I_F = 20\text{ mA}$
Peak Wavelength	$\lambda_p$	—	575	—	nm	$I_F = 20\text{ mA}$
Dominant Wavelength	$\lambda_d$	—	573	—	nm	$I_F = 20\text{ mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$	—	20	—	nm	$I_F = 20\text{ mA}$
Forward Voltage	$V_F$	—	2.0	2.4	V	$I_F = 20\text{ mA}$
Reverse Current	$I_R$	—	—	10	$\mu\text{A}$	$V_R = 5\text{ V}$

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