

## JRC0581

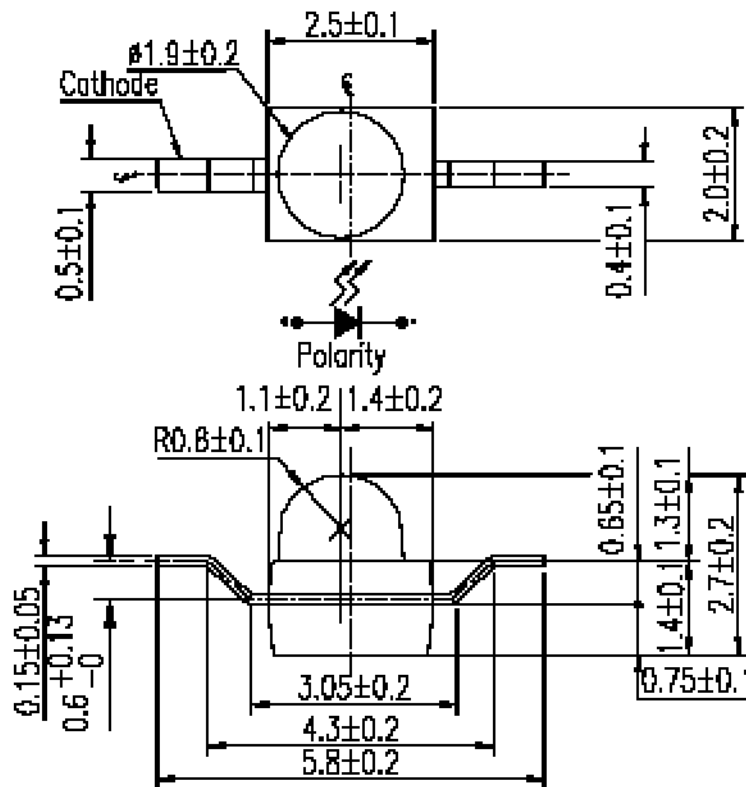
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The 058X series of tape and reel packaged subminiature lamps are designed for automated surface mount applications. The different series indicate lead shaping from the same LED type. These lamps are compatible with vapor phase reflow surface mounting as well as conventional soldering.



RoHS Compliant  
Aug 2004



PART NO.	Chip		Lens Color
	Material	Emitted Color	
JRC0581	AlGaInP	Brilliant Red	Water Clear

\* Specifications subject to change without notice. Dimensions are in mm $\pm 0.1$  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 +100	$^{\circ}\text{C}$
Soldering Temperature	$T_{sol}$	260 (for 5 sec)	$^{\circ}\text{C}$
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	$I_V$	198	482	—	mcd	$I_F = 20\text{ mA}$
Viewing Angle	$2\theta_{1/2}$	—	25	—	deg	
Peak Wavelength	$\lambda_p$	—	632	—	nm	
Dominant Wavelength	$\lambda_d$	—	624	—	nm	
Spectrum Radiation Bandwidth	$\Delta\lambda$	—	20	—	nm	
Forward Voltage	$V_F$	—	2.0	2.4	V	$V_R = 5\text{ V}$
Reverse Current	$I_R$	—	—	10	$\mu\text{A}$	