

JRC0581

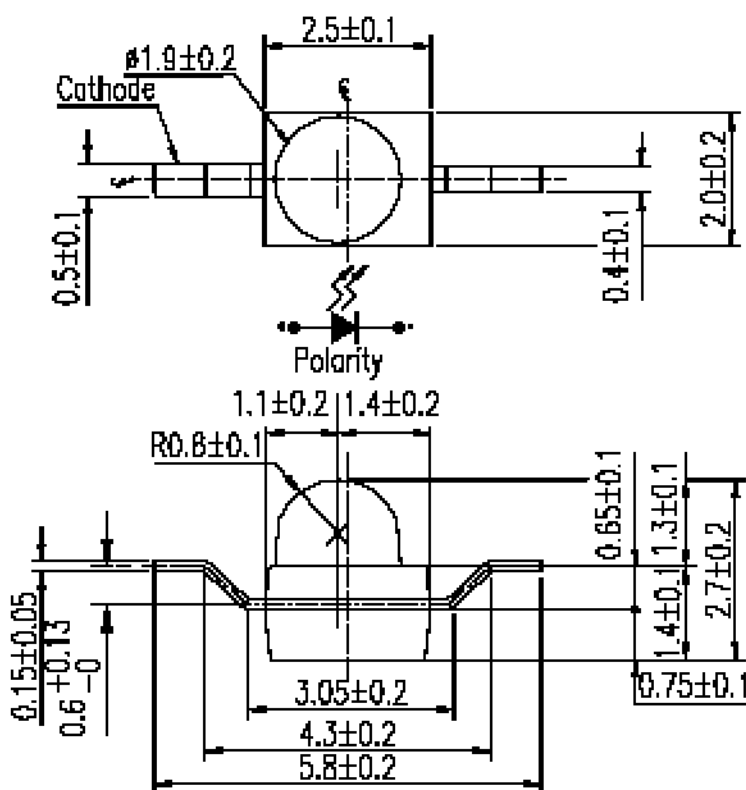
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The 058X series of tape and reel packaged subminiature lamps are designed for automated surface mount applications. The different series indicate lead shaping from the same LED type. These lamps are compatible with vapor phase reflow surface mounting 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 ± 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	λ_p	—	632	—	nm	
Dominant Wavelength	λ_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	μA	

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