JDGC0128

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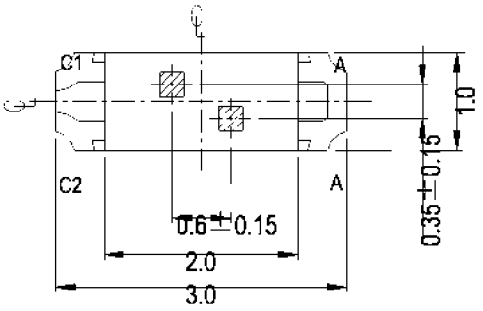
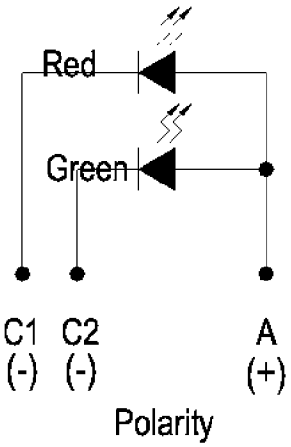
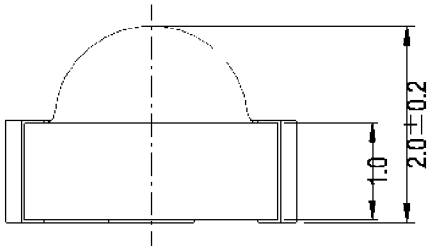
IDEA, Inc.

This is a right-angle bi-color miniature chip type. It can be used for backlighting or as through the panel indicators.

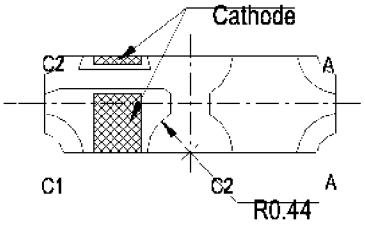
RoHS Compliant
Aug 2004

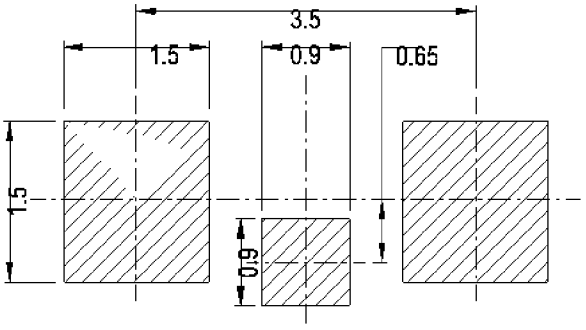






For reflow soldering (propose)





PART NO.	Chip		Lens Color
	Material	Emitted Color	
JDGC0128	AlGaInP	Hyper Deep-Red	Water Clear
	AlGaInP	Super Yellow Green	

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

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Absolute Maximum Ratings at T_a = 25 °C

Parameter	Symbol	Rating		Units
Forward Current	I_F	SDR	25	mA
		SYG	25	
Operating Temperature	T_{opr}	-40 to +85		°C
Storage Temperature	T_{stg}	-40 to +90		°C
Soldering Temperature	T_{sol}	260 (for 5 seconds)		°C
Power Dissipation	P_d	SDR	120	mW
		SYG	120	
Peak Forward Current (Duty 1/10 @ 1KHz)	I_F (Peak)	SDR	160	mA
		SYG	160	
Reverse Voltage	V_R	5		V

Electronic Optical Characteristics

Parameter	Symbol		Min.	Typ.	Max.	Units	Condition
Luminous Intensity	I_V	SDR	17	30	—	mcd	I_F = 20 mA
		SYG	13	24	—		
Viewing Angle	$2\theta_{1/2}$		—	120	—	deg	I_F = 20 mA
Peak Wavelength	λ_p	SDR	—	650	—	nm	I_F = 20 mA
		SYG	—	575	—		
Dominant Wavelength	λ_d	SDR	—	639	—	nm	I_F = 20 mA
		SYG	—	573	—		
Spectrum Radiation Bandwidth	$\Delta\lambda$	SDR	—	20	—	nm	I_F = 20 mA
		SYG	—	20	—		
Forward Voltage	V_F	SDR	—	2.0	2.4	V	I_F = 20 mA
		SYG	—	2.0	2.4		
Reverse Current	I_R		—	—	10	μA	V_R = 5 V