IVRVGC0118

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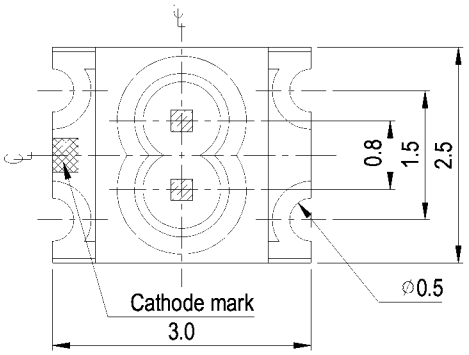
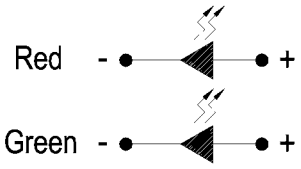
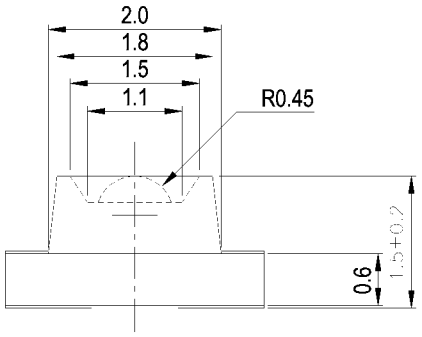
These lamps are miniature chip type designed for surface mounting and measure approximately 2.5 x 3 mm.

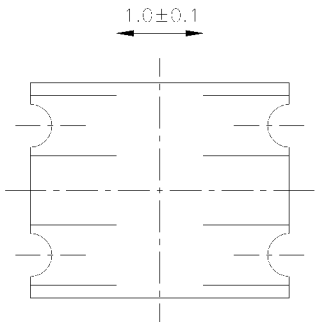




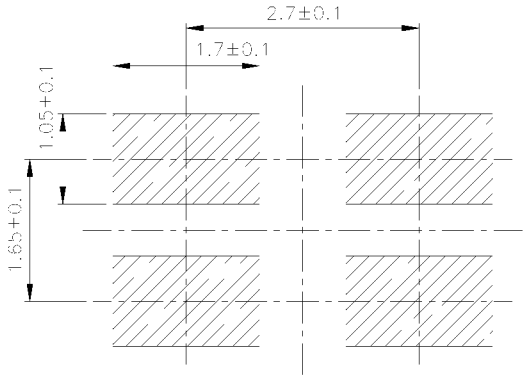
Polarity 1

RoHS Compliant
Aug 2004





For reflow soldering (propose)



PART NO.	Chip		Lens Color
	Material	Emitted Color	
IVRVGC0118	GaAsP/GaP	Red	Water Clear
	GaP	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	VR	30	mA
		VG	30	
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
Electrostatic Discharge	ESD	2000		V
Power Dissipation	P_d	VR	100	mW
		VG	100	
Peak Forward Current (Duty 1/10 @ 1KHz)	I_F (Peak)	VR	60	mA
		VG	60	
Reverse Voltage	V_R	5		V

Electronic Optical Characteristics

Parameter	Symbol		Min.	Typ.	Max.	Units	Condition
Luminous Intensity	I_V	VR	7	10.5	—	mcd	I_F = 20 mA
		VG	14	21	—		
Viewing Angle	$2\theta_{1/2}$		—	60	—	deg	I_F = 20 mA
Peak Wavelength	λ_p	VR	—	640	—	nm	I_F = 20 mA
		VG	—	570	—		
Dominant Wavelength	λ_d	VR	—	625	—	nm	I_F = 20 mA
		VG	—	571	—		
Spectrum Radiation Bandwidth	$\Delta\lambda$	VR	—	45	—	nm	I_F = 20 mA
		VG	—	30	—		
Forward Voltage	V_F	VR	1.7	2.0	2.4	V	I_F = 20 mA
		VG	1.7	2.1	2.4		
Reverse Current	I_R		—	—	10	μA	V_R = 5 V