

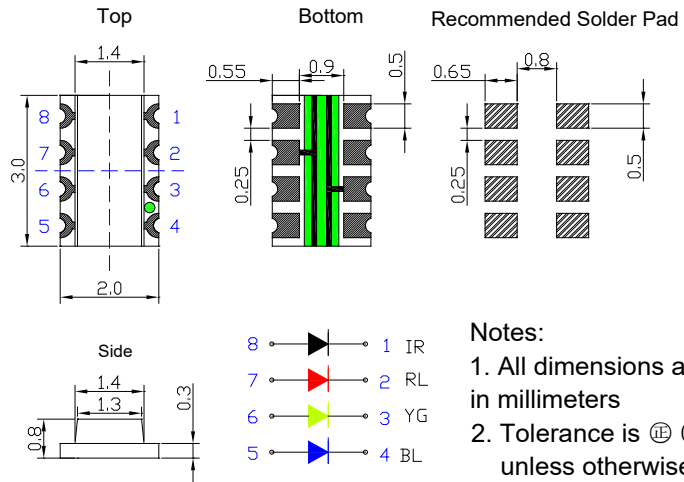
■Features

- Four-color chip LED
- Super high brightness of surface mount LED
- Water clear flat mold
- Compact package outline
(LxWxT) of 3.0mm x 2.0mm x 0.8mm
- Compatible to IR reflow soldering.

■Applications

- Beauty therapy

■Outline Dimension



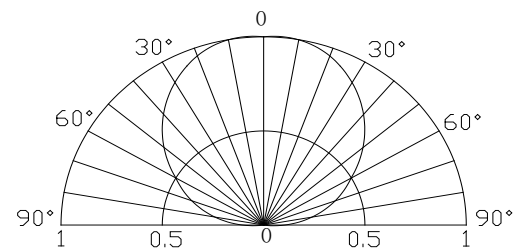
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value			Unit
		BL	YG/RL	IR	
DC Forward Current	I_F	20	20	20	mA
Pulse Forward Current#	I_{FP}	100	100	100	mA
Reverse Voltage	V_R	5	5	5	V
Power Dissipation	P_D	64	52	36	mW
Operating Temperature	T_{opr}	-40 ~ +85			°C
Storage Temperature	T_{stg}	-40 ~ +85			°C
Lead Soldering Temperature	T_{sol}	260°C/10sec			-

#Pulse width Max 0.1ms, Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V_F (BL)	$I_F=10\text{mA}$	-	2.6	3.2	V
	V_F (YG/RL)	$I_F=10\text{mA}$	-	2.1	2.6	V
	V_F (IR)	$I_F=10\text{mA}$	-	1.4	1.8	V
DC Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Domi. Wavelength*	λ_D (BL)	$I_F=10\text{mA}$	460	465	470	nm
	λ_D (YG)	$I_F=10\text{mA}$	565	570	575	nm
	λ_D (RL)	$I_F=10\text{mA}$	620	625	630	nm
Peak Wavelength *	λ_p (IR)	$I_F=10\text{mA}$	840	850	860	nm
Luminous Intensity*	I_v (BL)	$I_F=10\text{mA}$	50	70	-	mcd
	I_v (YG)	$I_F=10\text{mA}$	30	40	-	mcd
	I_v (RL)	$I_F=10\text{mA}$	150	180	-	mcd
Radiant Intensity *	I_e (IR)	$I_F=10\text{mA}$	0.5	0.8	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	$I_F=10\text{mA}$	-	120	-	deg

*1 Tolerance of measurements of forward voltage is $\pm 0.1\text{V}$

*2 Tolerance of measurements of dominant wavelength is $\pm 1\text{nm}$

*3 Tolerance of measurements of luminous intensity is $\pm 15\%$