

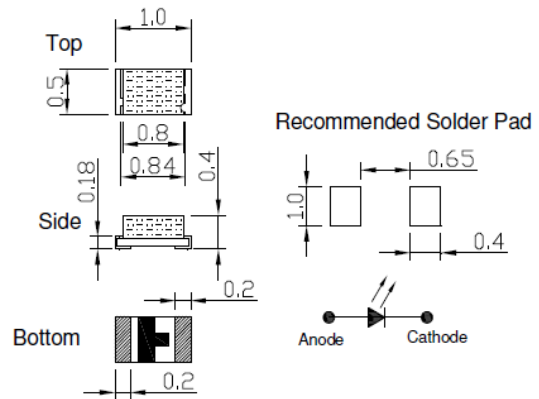
■Features

- Single chip
- Super high brightness of surface mount LED
- Sorting for I_v and V_f @ 20mA of I_f
- Compact package outline (LxWxT) of 1.0mm x 0.5mm x 0.4mm
- Compatible to IR reflow soldering.

■Applications

- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)

■Outline Dimension



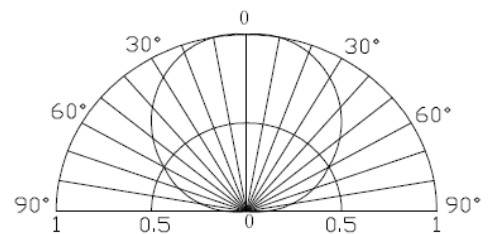
■Absolute Maximum Rating

($T_a=25^\circ\text{C}$)

Item	Symbol	Value		Unit
		R/YG/O/Y	B/PG/W	
DC Forward Current	I_F	20	20	mA
Pulse Forward Current*	I_{FP}	100	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	52	72	mW
Operating Temperature	T_{opr}	-40 ~ +85		$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ +85		$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	260 $^\circ\text{C}$ /5sec		-

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

■Directivity



■Electrical -Optical Characteristics

($T_a=25^\circ\text{C}$)

Color			V_F (V)			I_R (μA)	I_v (mcd)			λ_D (nm)			$2\theta_{1/2}$ (deg)
			Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
			$I_F=20\text{mA}$			$V_R=5\text{V}$		$I_F=20\text{mA}$					
Warm White	WW		2.8	3.2	3.6	100	250	400	600	3000-3500K			120
Pure White	PW		2.8	3.2	3.6	100	250	400	600	6500-9000K			120
Blue	B		2.8	3.2	3.6	100	60	90	150	465	470	475	120
Green	G		2.8	3.1	3.6	100	250	400	600	520	525	530	120
Yellow green	YG		1.8	2.0	2.6	100	20	30	40	565	570	575	120
Yellow	Y		1.8	2.0	2.6	100	50	100	200	585	590	595	120
Orange	O		1.9	2.2	2.6	100	50	100	200	600	605	610	120
Red	R		1.8	2.0	2.6	100	50	100	200	620	625	630	120