

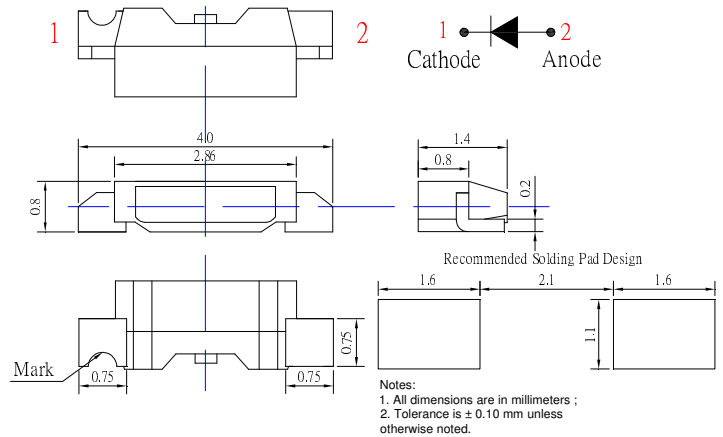
**■Features**

- Single chip
- Suitable for all SMT assembly methods.
- Sorting for  $I_v$  and  $V_f$  @ 20mA of  $I_f$
- Compact package outline  
(LxWxT) of 4.0mm x 0.8mm x 1.4mm
- Compatible to IR reflow soldering.

**■Applications**

- Mobile communications equipment (Ipad, Iphone, etc.)
- Digital products (MP3,MP4, etc.)

**■Outline Dimension**



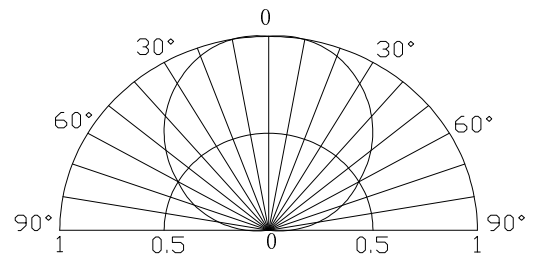
**■Absolute Maximum Rating**

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

Item	Symbol	Value		Unit
		W/M/K/PG//B	YG/Y/R	
DC Forward Current	$I_F$	30	30	mA
Pulse Forward Current*	$I_{FP}$	100	100	mA
Reverse Voltage	$V_R$	5	5	V
Power Dissipation	$P_D$	102	72	mW
Operating Temperature	$T_{opr}$	-30 ~ +85		$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 ~ +100		$^\circ\text{C}$
Lead Soldering Temperature	$T_{sol}$	260 $^\circ\text{C}$ /10sec		-

\*Pulse width Max.10ms Duty ratio max 1/10

**■Directivity**



**■Electrical -Optical Characteristics**

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

Part Number	Color			$V_F$ (V)			$I_R$ ( $\mu\text{A}$ )	$I_v$ (mcd)			CCT(K)\Wd(nm)*			$2\theta_{1/2}$ (deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				$I_F=20\text{mA}$			$V_R=5\text{V}$			$I_F=20\text{mA}$				
OSW54008C1F	Cool White	W		2.8	3.0	3.4	10	1400	2000	-	CCT:8000~18000K			120
OSM64008C1F	Warm White	M	■	2.8	3.0	3.4	10	1400	2000	-	CCT:3000~3800K			120
OSK54008C1F	Pink	K		2.8	3.0	3.4	10	100	200	-	typ.:X=0.38,Y=0.16			120
OSB54008C1F	Blue	B	■	2.8	3.0	3.4	10	200	400	-	460	465	470	120
OSG84008C1F	Yellow Green	YG	■	1.8	2.0	2.4	10	70	120	-	565	570	575	120
OSG54008C1F	Pure Green	PG	■	2.8	3.0	3.4	10	800	1500	-	515	520	525	120
OSY54008C1F	Yellow	Y	■	1.8	2.0	2.4	10	200	400	-	585	590	595	120
OSR54008C1F	Red	R	■	1.8	2.0	2.4	10	200	400	-	620	625	630	120

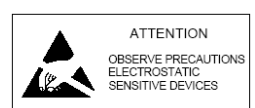
\*1 Tolerance of measurements of chromaticity coordinate is  $\pm 10\%$

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

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

\*4 Tolerance of measurements of forward voltage is  $\pm 0.1\text{V}$

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