

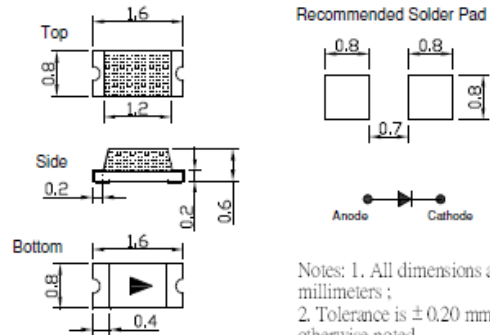
**■Features**

- Single chip
- Super high brightness of surface mount LED
- Sorting for  $I_v$  and  $V_f$  @ 5mA of  $I_f$
- Compact package outline  
(LxWxT) of 1.6mm x 0.8mm x 0.6mm
- Compatible to IR reflow soldering.

**■Applications**

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

**■Outline Dimension**



Recommended Solder Pad

Notes: 1. All dimensions are in millimeters ;  
2. Tolerance is  $\pm 0.20$  mm unless otherwise noted.

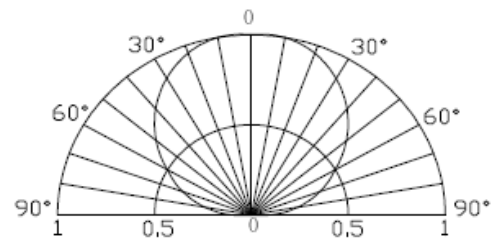
**■Absolute Maximum Rating**

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

Item	Symbo	Value		Unit
		M5/W5/K4/ G5/B5/VX	Y5/O5/R5/G8	
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	$P_d$	68	48	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)			$I_R$ ( $\mu\text{A}$ )	$I_v$ (mcd)			$\lambda_D$ (nm)			$2\theta_{1/2}$ (deg)
		Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
		$I_F=5\text{mA}$			$V_R=5\text{V}$	$I_F=5\text{mA}$						
Warm White	M5	2.5	2.8	3.4	10	60	-	160	X=0.44, Y=0.41			120
White	W5	2.5	2.8	3.4	10	100	-	200	X=0.27, Y=0.28			120
Pink	K4	2.5	2.8	3.4	10	50	-	100	X=0.31, Y=0.20			120
Violet	VX	2.5	2.8	3.4	10	70	-	130	X=0.20, Y=0.09			120
Blue	B5	2.5	2.8	3.4	10	14	-	40	455	470	475	120
Ice Blue	B6	2.5	2.8	3.4	10	80	-	200	X=0.18 Y=0.26			120
True Green	G5	2.5	2.8	3.4	10	120	-	220	520	525	530	120
Yellow Green	G8	1.6	1.8	2.4	10	5	-	15	565	570	575	120
Yellow	Y5	1.6	1.8	2.4	10	15	-	50	585	590	595	120
Orange	O5	1.6	1.8	2.4	10	15	-	50	600	605	610	120
Red	R5	1.6	1.8	2.4	10	15	-	50	617	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  $\pm 0.1\text{V}$

■ Optical and Electrical Characteristics

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

