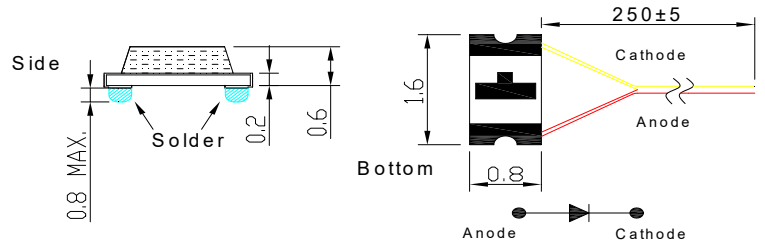


**■Features**

- 0.16mm enameled copper wire, length  $250 \pm 5$ mm
- High reliability
- Low power consumption
- Specified at  $I_F = 1$  mA
- Compact package outline  
(LxWxT) of 1.6mm x 0.8mm x 0.6mm

**■Outline Dimension**



Notes: 1. All dimensions are in millimeters ;  
2. Tolerance is  $\pm 0.10$  mm unless otherwise noted.

**■Applications**

- Electronic toys, electronic appliances, electronic models
- Models lightning and indicator light

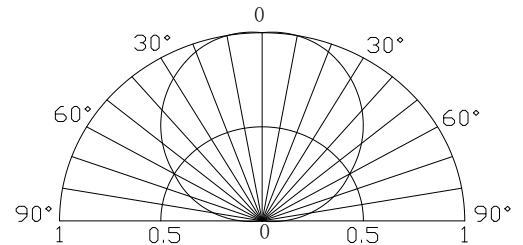
**■Absolute Maximum Rating**

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

Item	Symbol	Value		Unit
		M5/W5/B5/G5	Y5/O5/R5	
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		$^\circ\text{C}$

#Pulse width Max 0.1ms, 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)			$\lambda_D$ (nm)/CCT(K)			$2\theta_{1/2}$ (deg)
			Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
			$I_F=1\text{mA}$			$V_R=5\text{V}$	$I_F=1\text{mA}$						
OSM50603F-1MA-W25	Warm White	M5	-	2.6	3.2	10	60	75	-	2700-3000-3300K	120		
OSW50603F-1MA-W25	Cool White	W5	-	2.6	3.2	10	60	75	-	10000-20000-30000K	120		
OSB50603F-1MA-W25	Blue	B5	-	2.6	3.2	10	20	25	-	470	475	480	120
OSG50603F-1MA-W25	Pure Green	G5	-	2.6	3.2	10	100	120	-	525	530	535	120
OSY50603F-1MA-W25	Yellow	Y5	-	1.8	2.4	10	15	20	-	585	590	595	120
OSO50603F-1MA-W25	Orange	O5	-	1.8	2.4	10	15	20	-	600	605	610	120
OSR50603F-1MA-W25	Red	R5	-	1.8	2.4	10	15	20	-	617	625	630	120

\*1 Tolerance of measurements of chromaticity coordinate/CCT 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  $\pm 0.1\text{V}$