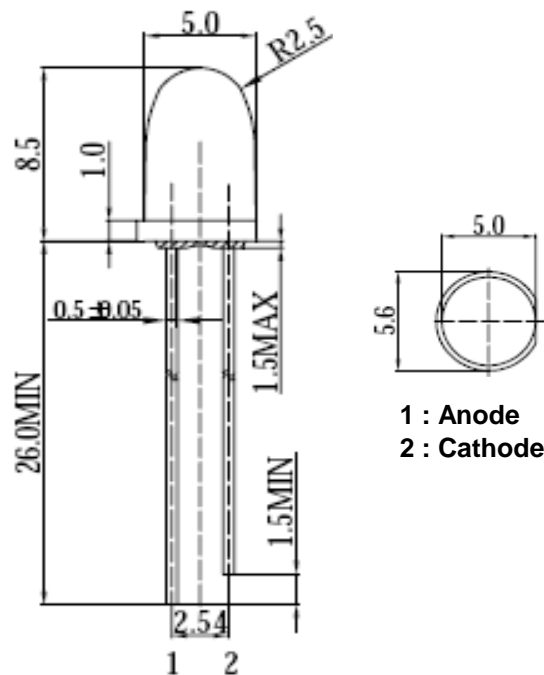




**Applications**

- Electronic Signs and Signals
- Small Area Illuminations
- Back Lighting
- Other Lighting

**Technical Drawing**



**Notes :**

All dimensions in mm tolerance is  $\pm 0.1\text{mm}$  unless otherwise noted.

<b>Bullet LED White</b>	
Part No.:	<b>M13F9001</b>
Customer:	

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**Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	---	Unit
Power Dissipation	P <sub>D</sub>	108	mW
DC Forward Current	I <sub>F</sub>	30	mA
Pulsed Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-40 to 85	°C
Storage Temperature	T <sub>ST</sub>	-40 to 85	°C

\* 0.1 msec pulse, 10% duty cycle

**Electrical / Optical Characteristics**

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color	White		
Material	---		
Forward Voltage	typ.	2.9	V <sub>F</sub>
	max.	3.6	V <sub>F</sub>
Wavelength typ.	λ <sub>D</sub>	x = 0.31 y = 0.32	nm
	λ <sub>P</sub>	---	nm
	Δλ	---	nm
Color Temperature	min.	---	K
	max.	---	K
Luminous Intensity *	min.	---	lm
	typ.	5.5	lm
Reverse Current	max.	10	μA
Viewing Angle	2θ <sub>1/2</sub>	30	

\* Per NIST standards

**Bullet LED**  
**White**

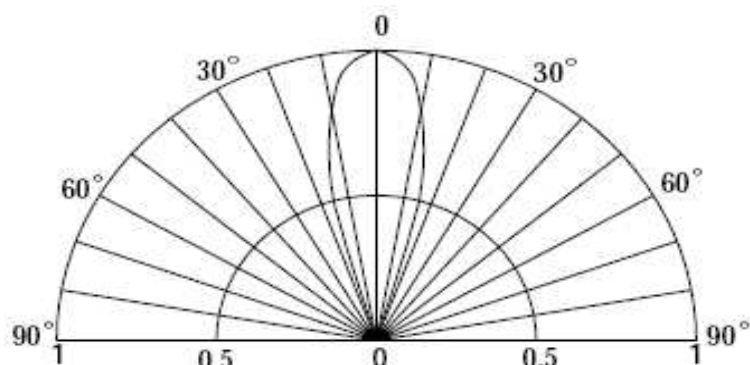
Part No.: **M13F9001**

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**Directive Characteristics**



**Bullet LED  
White**

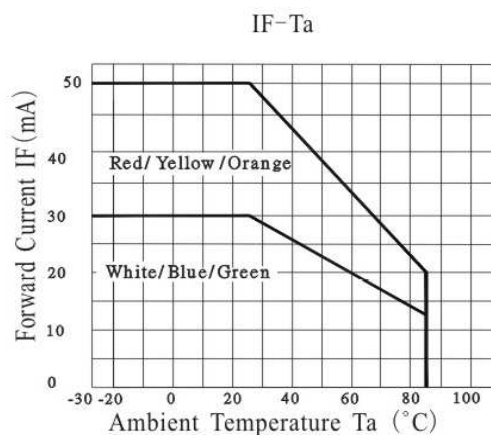
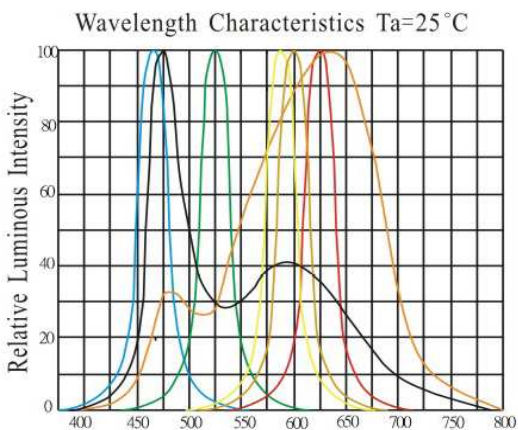
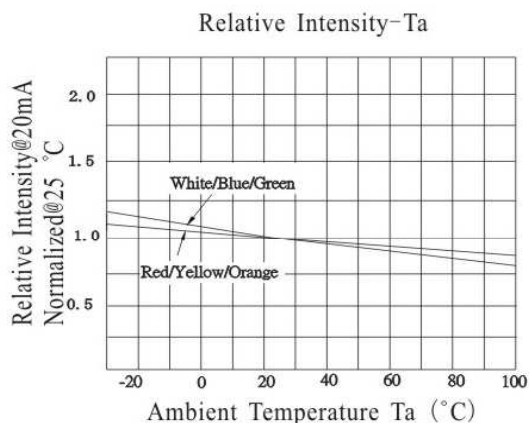
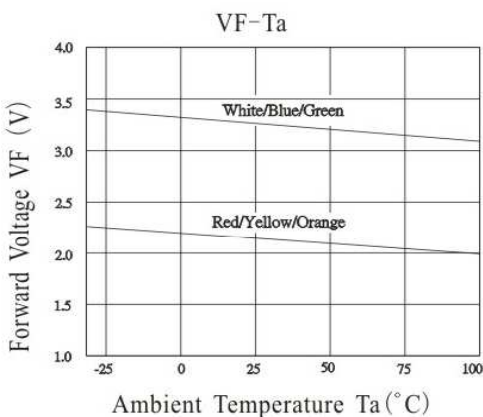
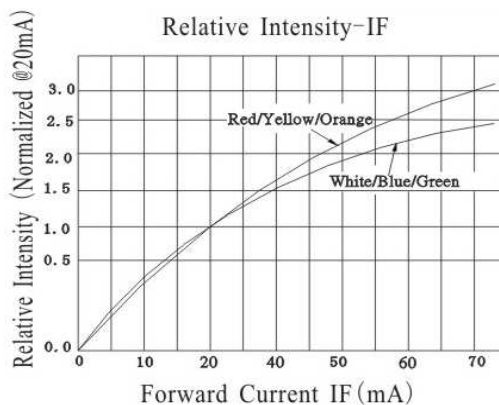
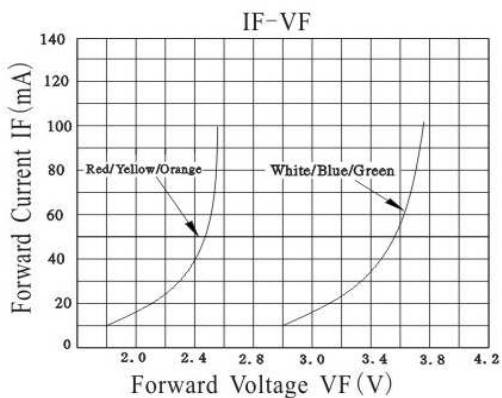
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**Typical Characteristics**



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**Solder Condition**

**Lead Free Solder**

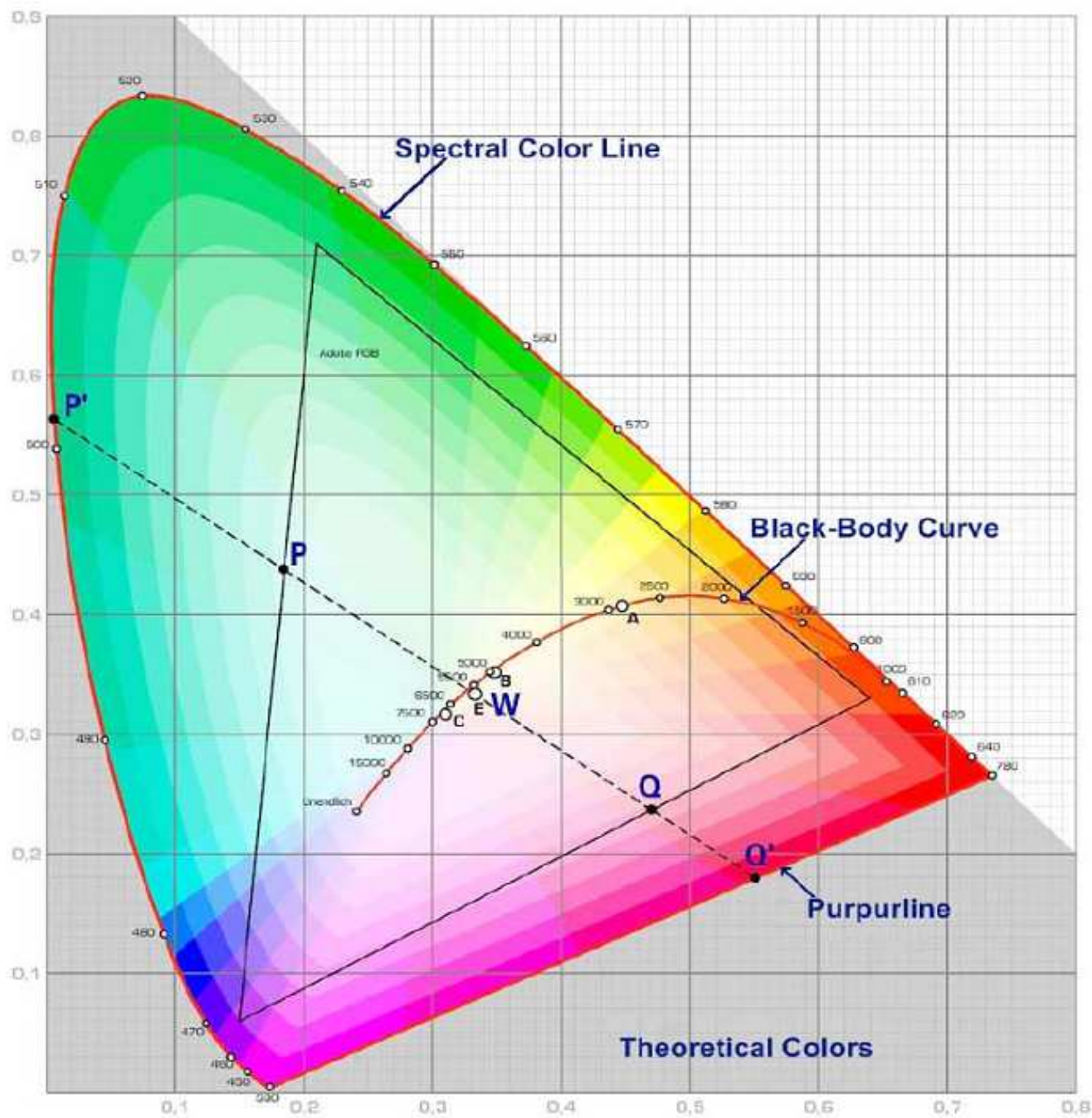


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**Color table curve**



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