



# SINGLE COLOR LED

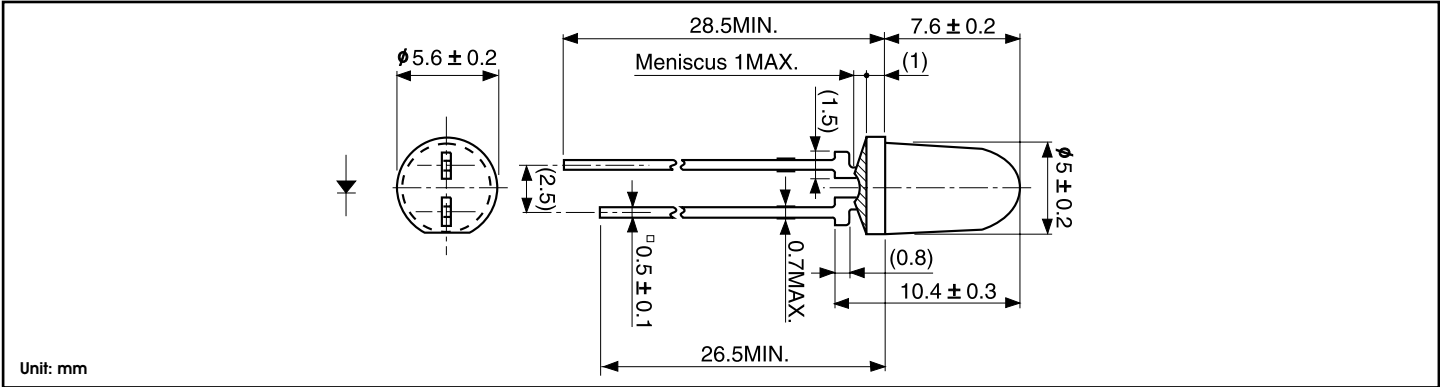
5mm Round Shape



## 5066X Series

HIGH BRIGHTNESS COLOR

### Outline Dimensions



### Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red	Orange	Yellow	Yellow Green	Green	Pure Green	Units
		HBR	HAA	HAY	HPY	HPG	HBG	
Power Dissipation	Pd	100	125	125	125	125	125	mW
Forward Current	IF	50	50	50	50	50	50	mA
Peak Forward Current	IFM	300	100	100	100	100	100	mA
Reverse Voltage	VR	4	4	4	4	4	4	V
Operating Temperature	Topr	-30 to +85						°C
Storage Temperature	Tstg	-30 to +100						°C
Derating (DC)*	IF	0.67						mA/°C

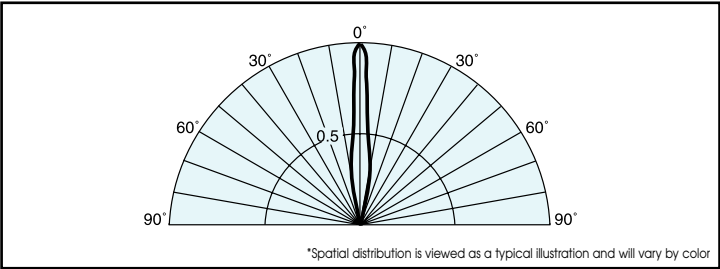
\* Ta=25°C, IFM applies for the pulse width 1msec. and duty cycle 1/20  
The current derating for operation applies when the temperature is above 25°C

### Electro-Optical Characteristics

\*The viewing angle is an average and will vary by color (Ta=25°C)

Part No.	Material	Emitted Color	Lens Color	Luminous Intensity I <sub>V</sub>			Wavelength Spectral Line Peak Dominant Half Width				Forward Voltage V <sub>F</sub>			Reverse Current I <sub>R</sub>		Viewing Angle (2 1/2)
				MIN.	TYP.	I <sub>F</sub>	Peak p TYP.	Dominant d TYP.	Half TYP.	Width I <sub>F</sub>	TYP.	MAX.	I <sub>F</sub>	MAX.	V <sub>R</sub>	
HBR5066X	GaAlAs	Red	Clear Pastel Red	200	300	20	660	647	30	20	1.7	2.0	20	20	4	10°
HAA5066X	GaAsP	Orange	Clear Pastel Orange	160	250	20	605	606	30	20	2.2	2.5	20	20	4	
HAY5066X	GaAsP	Yellow	Clear Pastel Yellow	100	150	20	580	590	30	20	2.2	2.5	20	20	4	
HPY5066X	GaP	Yellow Green		200	300	20	570	572	30	20	2.1	2.5	20	20	4	
HPG5066X	GaP	Green	Clear Pastel Green	150	200	20	560	567	30	20	2.1	2.5	20	20	4	
HBG5066X	GaP	Pure Green		100	150	20	555	558	30	20	2.1	2.5	20	20	4	
Units				mcd		mA	nm			mA	V	mA	μA	V	Deg.	

### Spatial Distribution (x)



### Operation Current Derating Chart

