



SINGLE COLOR LED

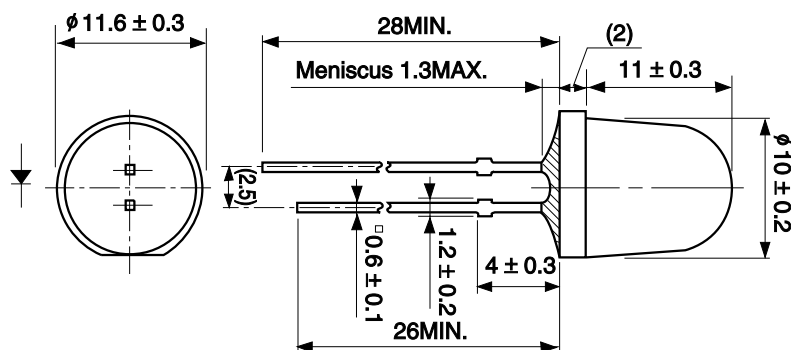
10mm Round Shape



H-3010-1 / HPY1010-1

H I G H B R I G H T N E S S C O L O R

Outline Dimensions



Unit: mm

Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red	Yellow Green	Units
		H (KR)	HPY	
Power Dissipation	Pd	125	125	mW
Forward Current	I _F	50	50	mA
Peak Forward Current	I _{FM}	300	100	mA
Reverse Voltage	V _R	4	4	V
Operating Temperature	Topr	-30~+85	-30~+85	°C
Storage Temperature	Tstg	-30~+100	-30~+100	°C
Derating (DC)*	I _F	0.67	0.67	mA/°C

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

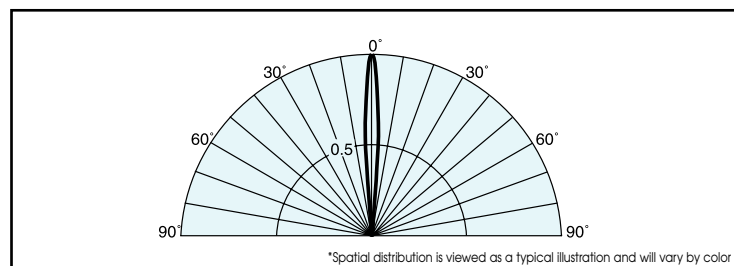
Electro-Optical Characteristics

*The viewing angle is an average and will vary by color

(Ta=25°C)

Part No.	Material	Emitted Color	Lens Color	Luminous Intensity I _v			Wavelength				Forward Voltage V _F			Reverse Current I _R		Viewing Angle (2 1/2)
				MIN.	TYP.	I _F	Peak P TYP.	Dominant d TYP.	Spectral Line Half Width TYP.	I _F	TYP.	MAX.	I _F	MAX.	V _R	
H-3010-1	GaAlAs	Red	Water Clear	2,000	3,000	20	660	647	25	20	1.8	2.5	20	100	4	7°
HPY1010-1	GaP	Yellow Green		500	1,000	20	570	572	30	20	2.1	2.5	20	20	4	9°
Units				mcd		mA	nm			mA	V	mA	μA	V	Deg.	

Spatial Distribution (x)



*Spatial distribution is viewed as a typical illustration and will vary by color

Operation Current Derating Chart

