



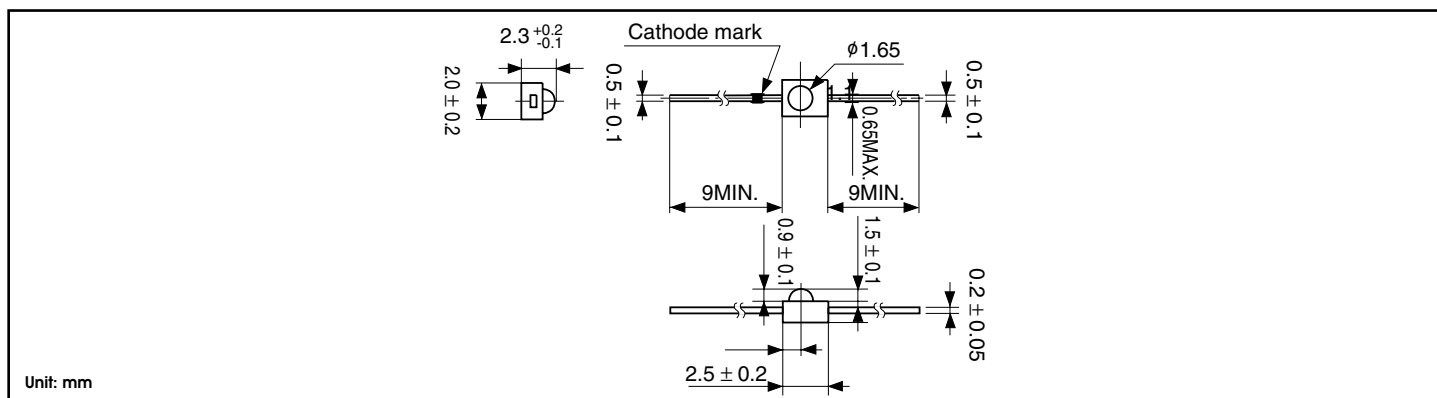
SINGLE COLOR LED

1.6mm Round Shape

2202S / 2222S Series

S T A N D A R D C O L O R

Outline Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red			Orange	Yellow	Yellow Green	Green	Pure Green	Units
		BR	PR	VR	AA	AY	PY	PG	BG	
Power Dissipation	Pd	80	75	75	100	100	100	100	100	mW
Forward Current	IF	40	30	30	40	40	40	40	40	mA
Peak Forward Current	IFM	300	100	100	100	100	100	100	100	mA
Reverse Voltage	VR	4	4	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	0.33			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

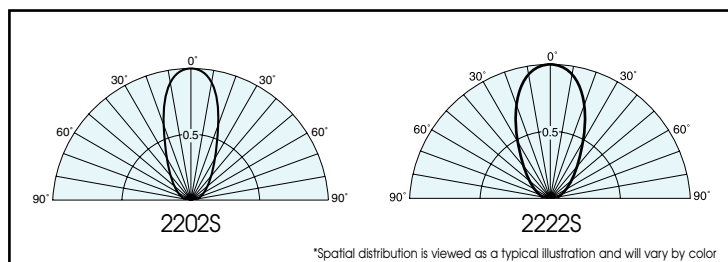
Electro-Optical Characteristics

*Applies only to 2222S Series; 2202S Series has water clear lens color
**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 <small>Spectral Line Dominant Half Width</small>				Forward Voltage V _f			Reverse Current I _R		Viewing Angle** (2 1/2)	
				MIN.	TYP.	If	Peak P TYP.	Dominant d TYP.	Half TYP.	If	TYP.	MAX.	If	MAX.	V _R		
BR2202S/2222S	GaAlAs	Red	Clear Red	10	20	20	660	647	30	20	1.7	2.0	20	100	4	60°	
PR2202S/2222S	GaP			0.8	1.6	10	700	635	100	10	2.1	2.5	10	100	4		
VR2202S/2222S	GaAsP			8	16	20	630	624	30	20	2.0	2.5	20	100	4		
AA2202S/2222S	GaAsP	Orange	Clear Orange	8	16	20	605	606	30	20	2.2	2.5	20	100	4		
AY2202S/2222S	GaAsP	Yellow	Clear Yellow	8	16	20	580	590	30	20	2.2	2.5	20	100	4		
PY2202S/2222S	GaP	Yellow Green		12	24	20	570	572	30	20	2.1	2.5	20	100	4		
PG2202S/2222S	GaP	Green	Clear Green	8	16	20	560	567	30	20	2.1	2.5	20	100	4		
BG2202S/2222S	GaP	Pure Green		4	8	20	555	558	30	20	2.1	2.5	20	100	4		
Units				mcd		mA	nm		mA		V		mA		μA	V	Deg.

Spatial Distribution (x)



Operation Current Derating Chart

