



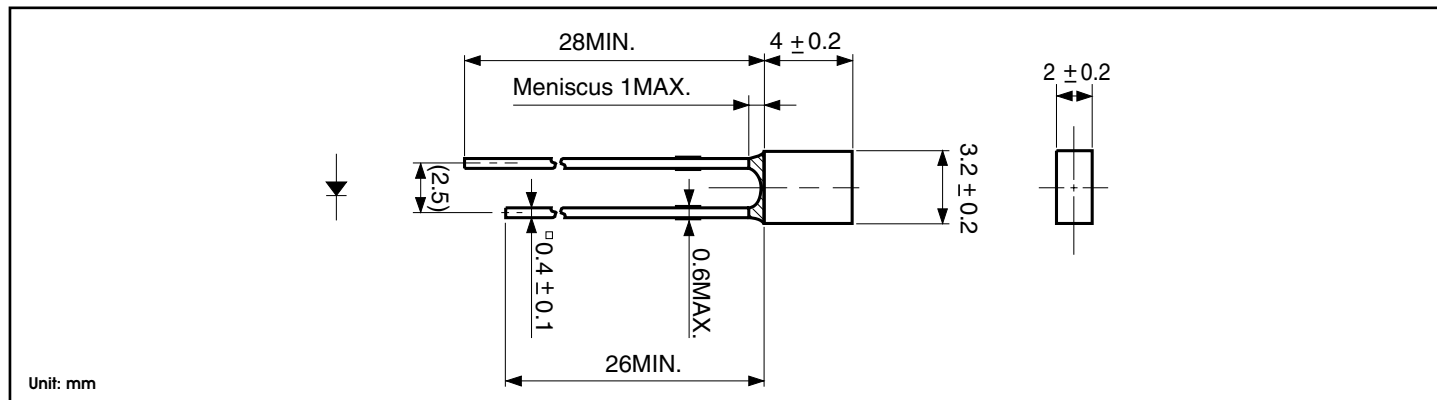
SINGLE COLOR LED

2 x 3.2mm Rectangular Shape

3822K 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	100	75	75	125	125	125	125	125	mW
Forward Current	I _F	50	30	30	50	50	50	50	50	mA
Peak Forward Current	I _{FM}	300	100	100	100	100	100	100	100	mA
Reverse Voltage	V _R	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)*	I _F	0.67	0.33			0.67				mA/°C

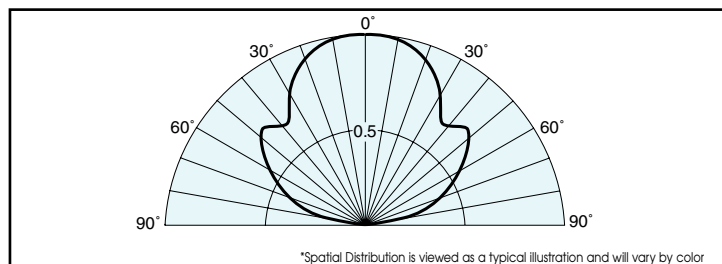
* Ta=25°C, I_{FM} applies for the pulse width 1msec. and duty cycle 1/20
The current derating for operation applies when the temperature is above 25°C

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 <div>Spectral Line Half Width</div>				Forward Voltage V _F			Reverse Current I _R		Viewing Angle <div>(2 1/2)</div>
				MIN.	TYP.	I _F	Peak P TYP.	Dominant d TYP.	TYP.	I _F	TYP.	MAX.	I _F	MAX.	V _R	
BR3822K	GaAlAs	Red	Clear Red	2	4	20	660	647	30	20	1.7	2.0	20	100	4	140°
PR3822K	GaP			0.4	0.8	10	700	635	100	10	2.1	2.5	10	100	4	
VR3822K	GaAsP			2	4	20	630	624	30	20	2.0	2.5	20	100	4	
AA3822K	GaAsP	Orange	Clear Orange	2	4	20	605	606	30	20	2.2	2.5	20	100	4	
AY3822K	GaAsP	Yellow	Clear Yellow	2	4	20	580	590	30	20	2.2	2.5	20	100	4	
PY3822K	GaP	Yellow Green		2	4	20	570	572	30	20	2.1	2.5	20	100	4	
PG3822K	GaP	Green	Clear Green	2	4	20	560	567	30	20	2.1	2.5	20	100	4	
BG3822K	GaP	Pure Green		1	2	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

