



SINGLE COLOR LED

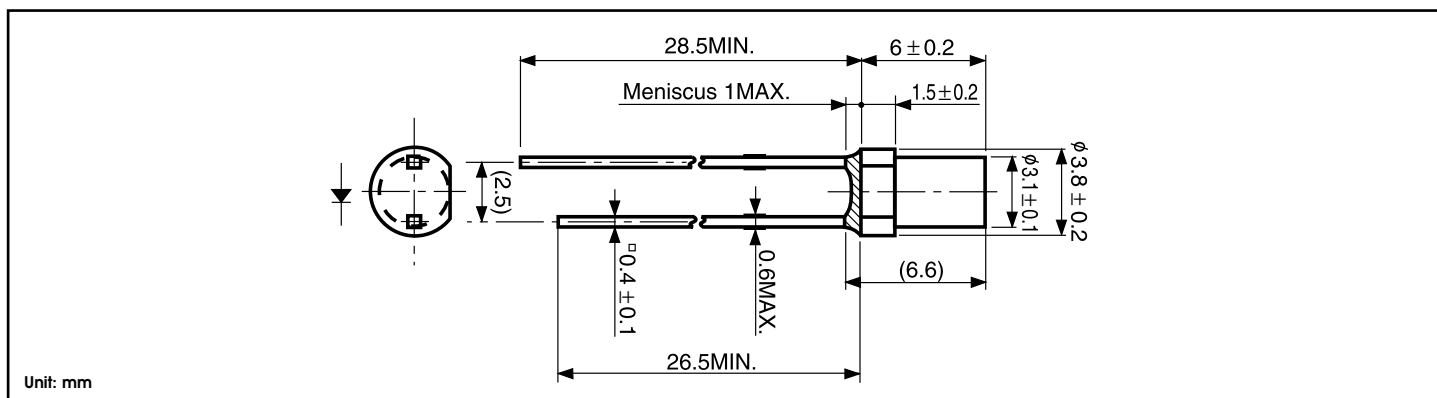
3mm Round Shape



3889S 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	IF	50	30	30	50	50	50	50	50	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

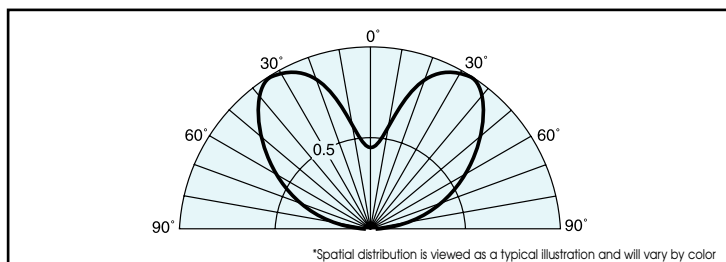
* Ta=25°C, IFM applies for the pulse width 1msec. and duty cycle 1/20
The current derating for operation applies when the temperature is above 25°C

Electro-Optical Characteristics

*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 Spectral Line Dominant Half Width				Forward Voltage V _f			Reverse Current I _r		Viewing Angle (2 1/2)
				MIN.	TYP.	If	Peak P TYP.	Dominant TYP.	Half Width TYP.	If	TYP.	MAX.	If	MAX.	V _r	
BR3889S	GaAlAs	Red	Diffused Pastel Red	4	8	20	660	647	30	20	1.7	2.0	20	100	4	160°
PR3889S	GaP			0.6	0.9	10	700	635	100	10	2.1	2.5	10	100	4	
VR3889S	GaAsP			3	6	20	630	624	30	20	2.0	2.5	20	100	4	
AA3889S	GaAsP	Orange	Diffused Pastel Orange	2.5	5	20	605	606	30	20	2.2	2.5	20	100	4	
AY3889S	GaAsP	Yellow	Diffused Pastel Yellow	2	4	20	580	590	30	20	2.2	2.5	20	100	4	
PY3889S	GaP	Yellow Green		2.5	5	20	570	572	30	20	2.1	2.5	20	100	4	
PG3889S	GaP	Green	Diffused Pastel Green	2	4	20	560	567	30	20	2.1	2.5	20	100	4	
BG3889S	GaP	Pure Green		0.8	1.6	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

