



SINGLE COLOR LED

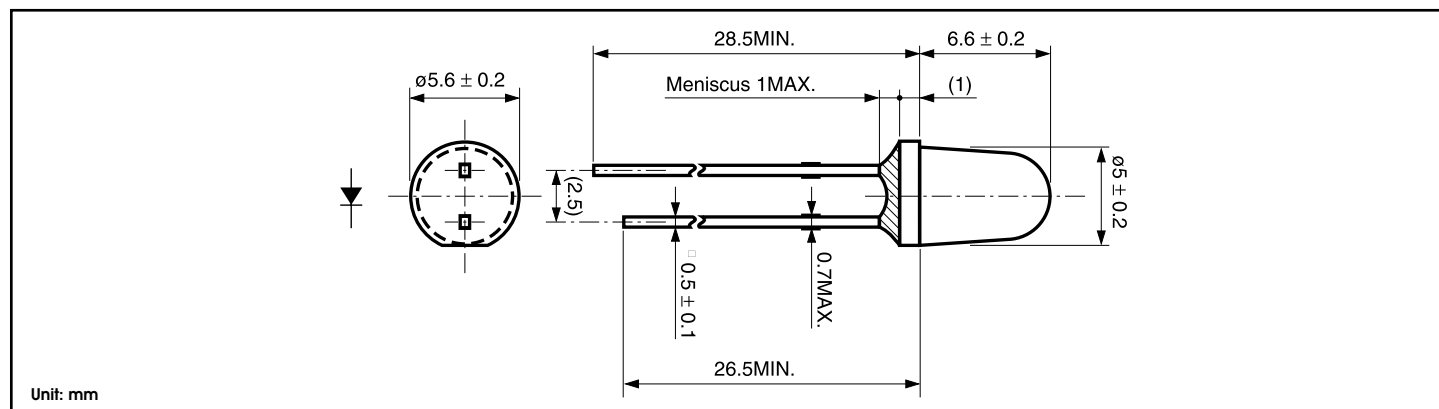
5mm Round Shape



5305S Series

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

Outline Dimensions



Unit: mm

Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red			Orange	Yellow	Yellow Green	Green	Pure Green	Units
		EBR, BR	PR	EVR, VR	EAA, AA	EAY, AY	EPY, PY	EPG, PG	EBG, 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

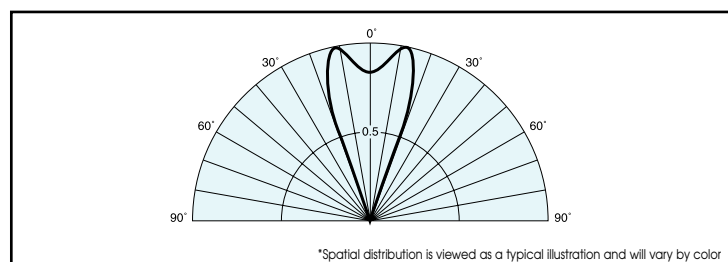
* Ta=25°C, I_{FM} applies for the pulse width 1msec. and duty cycle 1/20
The current derating for operation applies when the temperature is above 25°C

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 Spectral Line Half Width				Forward Voltage V _F			Reverse Current I _R		Viewing Angle (2 1/2)
				MIN.	TYP.	I _F	Peak TYP.	Dominant TYP.	TYP.	I _F	TYP.	MAX.	I _F	MAX.	V _R	
EBR/BR5305S	GaAlAs	Red	Water Clear	20/10	30/20	20	660	647	30	20	1.7	2.0	20	100	4	50°
PR5305S	GaP			4	8	10	700	635	100	10	2.1	2.5	10	100	4	35°
EVR/VR5305S	GaAsP			20/10	30/20	20	630	624	30	20	2.0	2.5	20	100	4	
EAA/AA5305S	GaAsP	Orange		30/15	45/30	20	605	606	30	20	2.2	2.5	20	100	4	
EAY/AY5305S	GaAsP	Yellow		30/15	45/30	20	580	590	30	20	2.2	2.5	20	100	4	
EPY/PY5305S	GaP	Yellow Green		50/25	75/50	20	570	572	30	20	2.1	2.5	20	100	4	
EPG/PG5305S	GaP	Green		40/20	60/40	20	560	567	30	20	2.1	2.5	20	100	4	
EBG/BG5305S	GaP	Pure Green		12/6	18/12	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

