

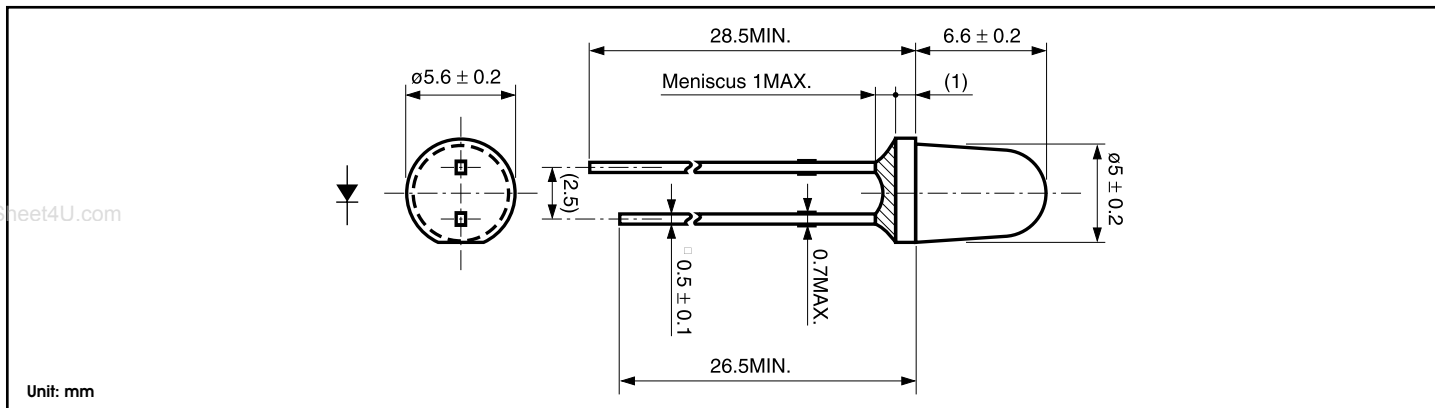
SINGLE COLOR LED

5mm Round Shape

5305S Series

STANDARD COLOR

Outline Dimensions



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

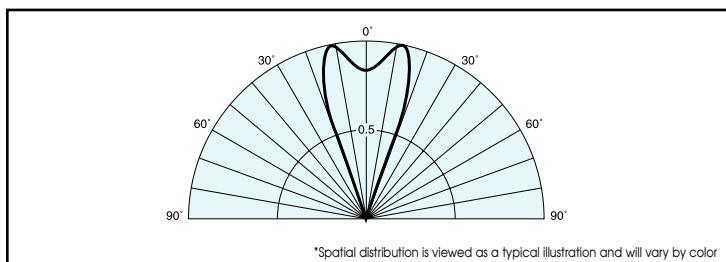
* Ta=25°C, Im applies for the pulse width 1msec. and duty cycle 1/20
The current derating for operation applies when the temperature is above 25°C

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 Iv			Wavelength Spectral Line				Forward Voltage Vf			Reverse Current Ir		Viewing Angle (2 1/2)
				MIN.	TYP.	If	Peak P TYP.	Dominant d TYP.	Spectral TYP.	Line If	TYP.	MAX.	If	MAX.	VR	
				EBR/BR5305S	GaAlAs	Red	Water Clear	20/10	30/20	20	660	647	30	20	1.7	
PR5305S	GaP	4	8	10	700			635	100	10	2.1	2.5	10	100	4	
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

