

SINGLE COLOR LED

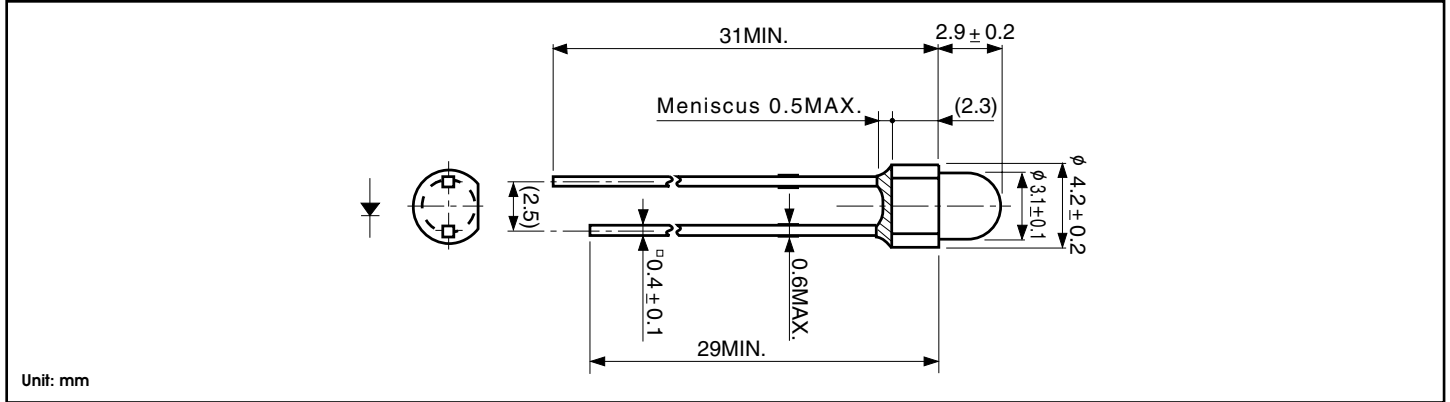
3mm Flush Mount Round Shape



D_3804X / F_3864X Series

HIGH BRIGHTNESS COLOR

Outline Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Blue	Blue Green	Green	Yellow		Orange		Red		Units
		DB	DC	DG	EFY	FY	EFA	FA	EFR	FR	
Power Dissipation	Pd	100	100	100	125	125	125	125	125	125	mW
Forward Current	I _F	25	25	25	50	50	50	50	50	50	mA
Peak Forward Current	I _{FM}	60	60	60	200	200	200	200	200	200	mA
Reverse Voltage	V _R	5	5	5	5	5	5	5	5	5	V
Operating Temperature	Topr	-40 to +85									°C
Storage Temperature	Tstg	-40 to +100									°C
Derating (DC)*	I _F	0.33			0.67						mA/°C

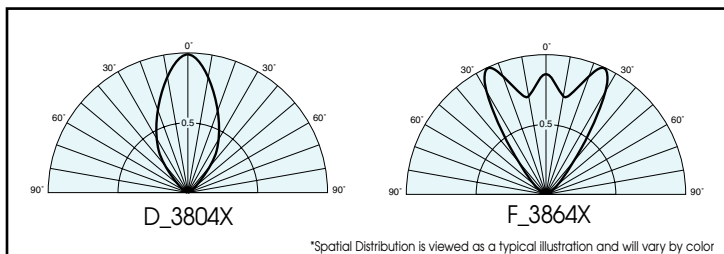
* Ta=25°C, I_{FM} applies for the pulse width 1ms, and duty cycle 1/20. The current derating for operation applies when the temperature is above 25°C.

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 / 2)
				MIN.	TYP.	I _f	Peak P TYP.	Dominant d TYP.	Spectral TYP.	Line I _f	TYP.	MAX.	I _f	MAX.	V _r	
DB3804X	InGaN/Sic	Blue	Water Clear	60	120	20	467	470	26	20	3.5	4.0	20	100	5	50°
DC3804X	InGaN/Sic	Blue Green		240	480	20	502	505	30	20	3.5	4.0	20	100	5	
DG3804X	InGaN/Sic	Green		240	480	20	522	525	30	20	3.5	4.0	20	100	5	
EFY3864X	AlInGaP	Yellow	Clear Pastel Yellow	350	500	20	592	590	15	20	1.9	2.4	20	100	5	70°
FY3864X				125	250	20										
EFA3864X	AlInGaP	Orange	Clear Pastel Orange	400	560	20	609	605	15	20	1.9	2.4	20	100	5	
FA3864X				140	280	20										
EFR3864X	AlInGaP	Red	Clear Pastel Red	300	440	20	635	626	15	20	1.9	2.4	20	100	5	
FR3864X				110	220	20										
Units				mcd	mA		nm		mA	V	mA	µA	V	Deg.		

Spatial Distribution (x)



*Spatial Distribution is viewed as a typical illustration and will vary by color

Operation Current Derating Chart

