SINGLE COLOR LED

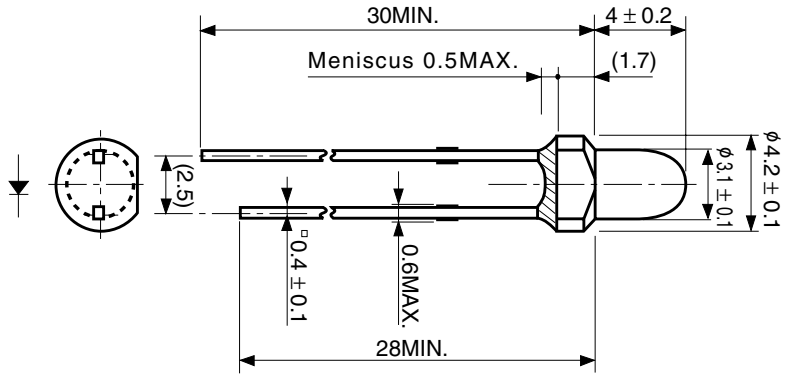
3mm Flush Mount Round Shape



D_3803X / F_3863X Series

HIGH BRIGHTNESS COLOR

Outline Dimensions



Unit: mm

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 1msec. and duty cycle 1/20.
The current derating for operation applies when the temperature is above 25°C

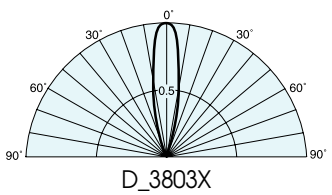
Electro-Optical Characteristics

*The viewing angle is an average and will vary by color

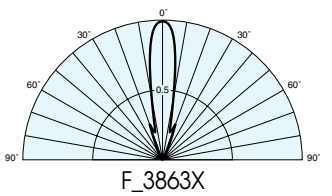
(Ta=25°C)

Part No.	Material	Emitted Color	Lens Color	Luminous Intensity I_V			Wavelength				Forward Voltage V_F			Reverse Current I_R		Viewing Angle (2 1/2)
							Peak λ_p	Dominant λ_d	Spectral Line Half Width							
				MIN.	TYP.	I_F	TYP.	TYP.	TYP.	I_F	TYP.	MAX.	I_F	MAX.	V_R	
DB3803X	InGaN/Sic	Blue	Water Clear	250	500	20	467	470	26	20	3.5	4.0	20	100	5	20°
DC3803X	InGaN/Sic	Blue Green		600	1,200	20	502	505	30	20	3.5	4.0	20	100	5	
DG3803X	InGaN/Sic	Green		600	1,200	20	522	525	30	20	3.5	4.0	20	100	5	
EFY3863X	AlInGaP	Yellow	Clear Pastel Yellow	1,000	1,440	20	592	590	15	20	1.9	2.4	20	100	5	20°
FY3863X				360	720	20										
EFA3863X	AlInGaP	Orange	Clear Pastel Orange	1,120	1,600	20	609	605	15	20	1.9	2.4	20	100	5	
FA3863X				400	800	20										
EFR3863X	AlInGaP	Red	Clear Pastel Red	900	1,280	20	635	626	15	20	1.9	2.4	20	100	5	
FR3863X				320	640	20										
Units				mcd		mA	nm			mA	V		mA	μA	V	Deg.

Spatial Distribution (x)



D_3803X



F_3863X

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

Operation Current Derating Chart

