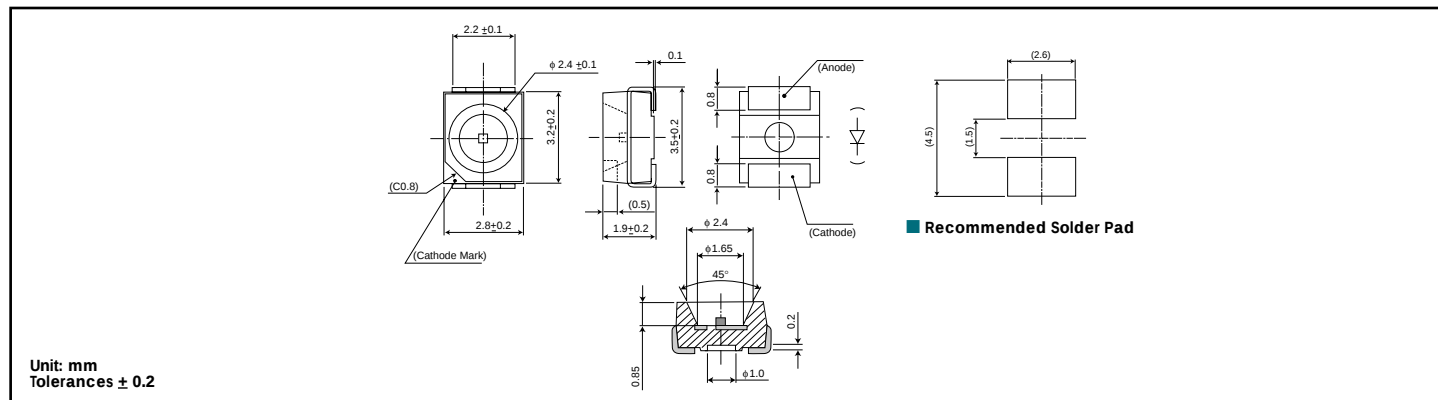


SINGLE COLOR LED



1104B Bath Tub (PLCC-2) Type

■ Outline Dimensions



■ Absolute Maximum Ratings

($T_a=25^{\circ}\text{C}$)

Item	Symbol	Red	Orange	Yellow	Pure Green	Green	Bluish-Green	Blue	Units
		FR	FA	FY	BG	DG	DC	DB	
Power Dissipation	Pd	81	81	81	125	80	80	80	mW
Forward Current	I _F	30	30	30	50	20	20	20	mA
Peak Forward Current	I _{FM}	100	100	100	125	50	50	50	mA
Reverse Voltage	V _R	5	5	5	4	5	5	5	V
Operating Temperature	T _{opr}	-40 to +100							°C
Storage Temperature	T _{stg}	-40 to +110							°C
Derating	ΔI _F	0.75 (60°C ~ 100°C)			10 (50°C ~ 100°C)		0.5 (60°C ~ 100°C)		mA/°C

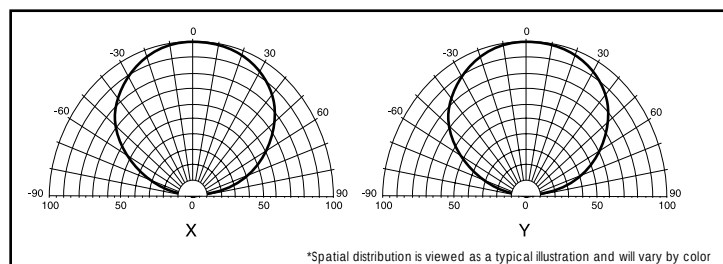
* Ta=25°C, I_{FM} applies for the pulse width $\leq 1\text{msec.}$ and duty cycle $\leq 1/20$.

■ 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 θ 1/2)			
				MIN.	TYP.	I _F	Peak λ _P TYP.	Dominant λ _D TYP.	Spectral Line Half Width Δλ TYP.	I _F	TYP.	MAX.	I _F	MAX.	V _R				
FR1104B	AlInGaP	Red	Water Clear	35	70	20	645	632	15	20	2.0	2.5	20	100	5	120°			
FA1104B	AlInGaP	Orange		35	70	20	609	605	15	20	2.0	2.5	20	100	5				
FY1104B	AlInGaP	Yellow		35	70	20	588	587	15	20	2.0	2.5	20	100	5				
BG1104B	GaP	Pure Green		5	10	20	555	557	30	20	2.1	2.5	20	100	4				
DG1104B	InGaN/SiC	Green		60	120	20	518	525	30	20	3.5	4.0	20	100	5				
DC1104B	InGaN/SiC	Bluish-Green		60	120	20	502	505	30	20	3.5	4.0	20	100	5				
DB1104B	InGaN/SiC	Blue		25	50	20	468	470	30	20	3.5	4.0	20	100	5				
Units				mcd		mA		nm		mA		V		μA		V		Deg.	

■ Spatial Distribution



■ Operation Current Derating Chart

