

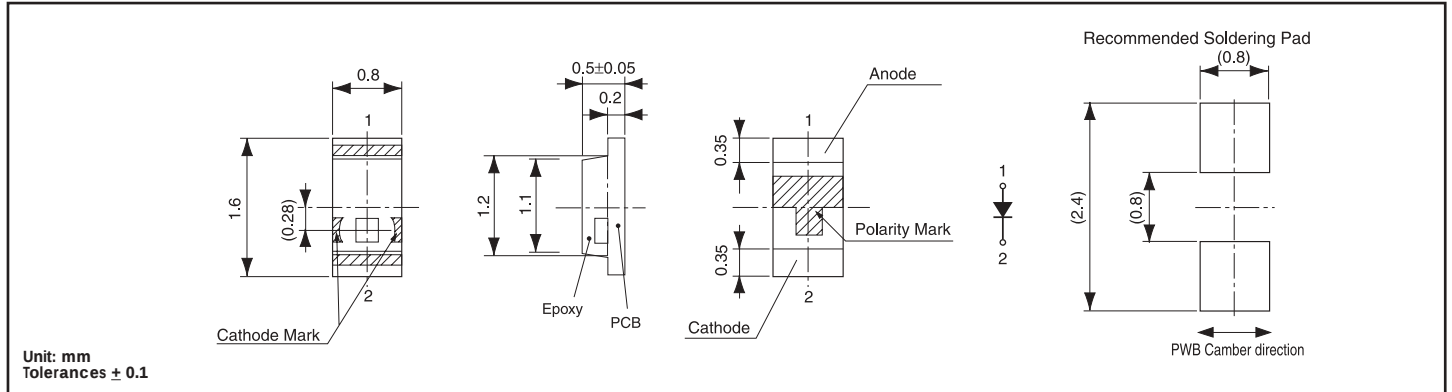
SINGLE COLOR LED



1112C Ultra Compact Type

STANDARD & HIGH BRIGHTNESS COLOR

Outline Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Red		Orange	Yellow	Yellow Green		Green	Units
		FR	DR	FA	FY	PY	PY-K	PG	
Power Dissipation	Pd	81	70	81	81	70	75	70	mW
Forward Current	IF	30	25	30	30	25	25	25	mA
Peak Forward Current	IFM	100	60	100	100	60	60	60	mA
Reverse Voltage	VR	5	4	5	5	4	4	4	V
Operating Temperature	Topr	-40 to +85							°C
Storage Temperature	Tstg	-40 to +100							°C
Derating*	ΔIF	0.43 (DC) 1.0 (Pulse)	0.36 (DC) 0.86 (Pulse)	0.43 (DC) 1.0 (Pulse)		0.36 (DC) 0.86 (Pulse)			mA/°C

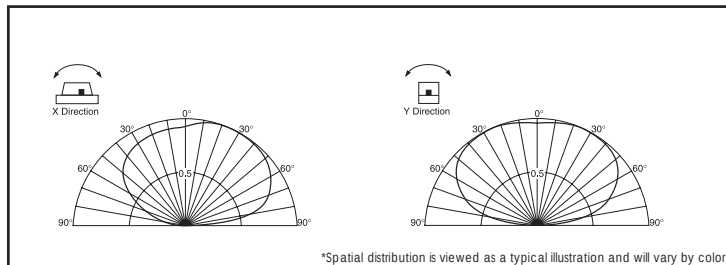
* Ta=25°C, IFM applies for the pulse width ≤ 1msec. and duty cycle ≤ 1/20.

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	
FR1112C	AlInGaP	Red	Milky White	25	45	20	635	626	15	20	1.9	2.4	20	100	5	130°
FA1112C	AlInGaP	Orange		25	50	20	609	605	15	20	1.9	2.4	20	100	5	
FY1112C	AlInGaP	Yellow		25	50	20	590	590	15	20	1.9	2.4	20	100	5	
DR1112C	GaAsP	Red		2.4	4.1	20	650	633	40	20	1.9	2.8	20	100	4	150°
PG1112C	GaP	Green		4.5	7.6	20	560	567	30	20	2.2	2.8	20	100	4	
PY1112C	GaP	Yellow-Green		7.0	11.7	20	570	572	30	20	2.1	2.8	20	100	4	
PY1112CK	GaP	Yellow-Green		3.3	5.6	10	570	572	30	10	2.1	2.8	10	100	4	
Units				mcd		mA	nm			mA	V		mA	μA	V	Deg.

Spatial Distribution



Operation Current Derating Chart (DC)

