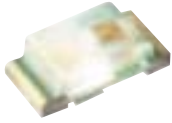


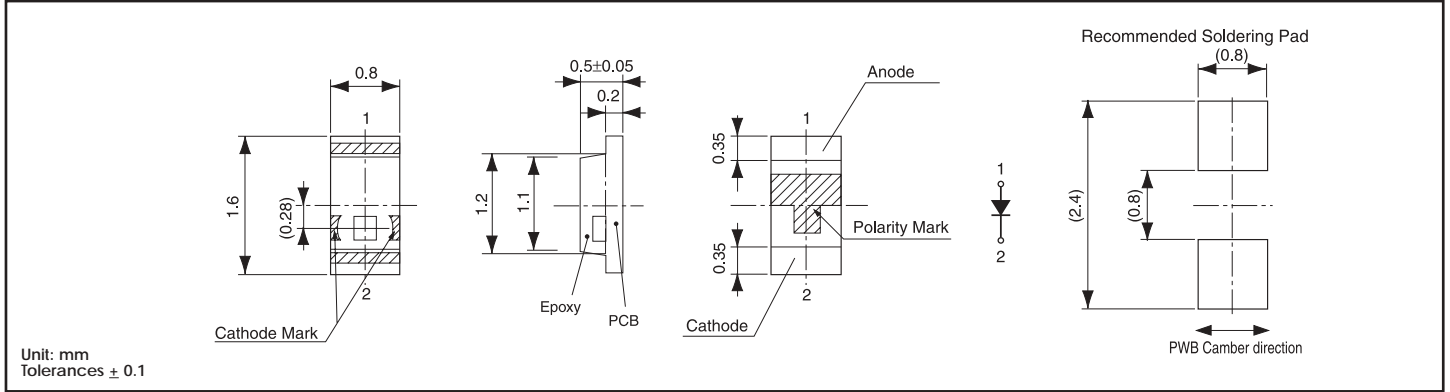
SINGLE COLOR LED



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	I _F	30	25	30	30	25	25	25	mA
Peak Forward Current	I _{FM}	100	60	100	100	60	60	60	mA
Reverse Voltage	V _R	5	4	5	5	4	4	4	V
Operating Temperature	Topr	-40 to +85							°C
Storage Temperature	Tstg	-40 to +100							°C
Derating*	ΔI _F	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	

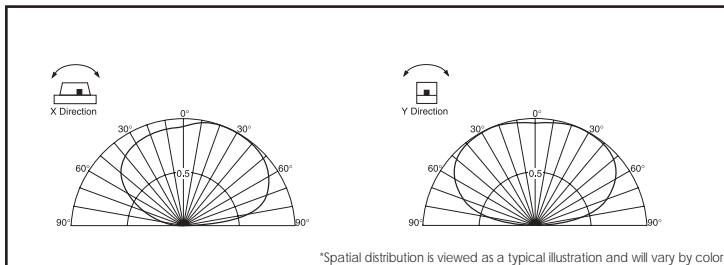
* Ta=25°C, I_{FM} applies for the pulse width ≤ 1msec. and duty cycle ≤ 1/20.

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 (2θ 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)

