

1113F Series

Right Angle Type 2.1X0.6mm

Absolute Maximum Ratings

Ta = 25°C

		Blue	Blue Green	Green		Yellow		Red		Units
Power Dissipation	Pd	UB	UC	UG	UY	UR				
Forward Current	If	20	20	20	30	30				mA
Peak Forward Current	Ifm	48	48	48	100	100				mA
Reverse Voltage	Vr	5	5	5	5	5				V
Operating Temp.	Topr	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85				°C
Storage Temp.	Tstg	-40~+100	-40~+100	-40~+100	-40~+100	-40~+100				°C
Derating *	ΔIf	0.28	0.28	0.28	0.43	0.43				mA/°C

* The current derating for operation applies when temperature is above 25°C.

• Ifm Condition : tw ≤ 1ms, Duty ≤ 1/20 (UY, UR : Duty ≤ 1/10)

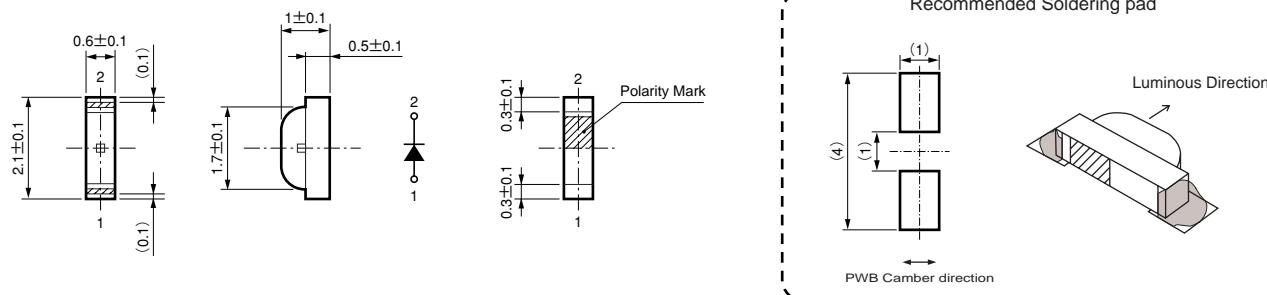
Electro-Optical Characteristics

Ta = 25°C

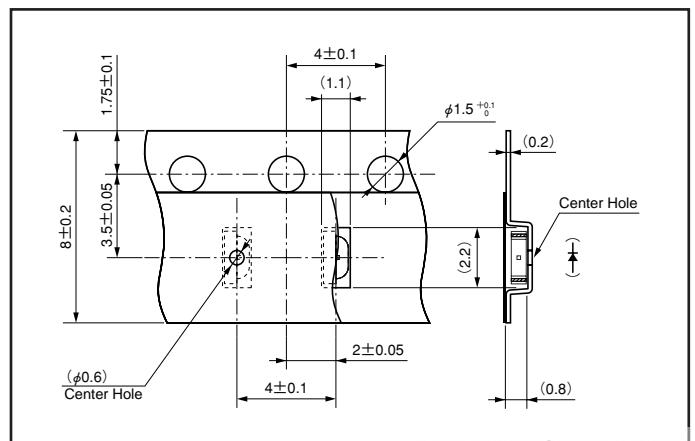
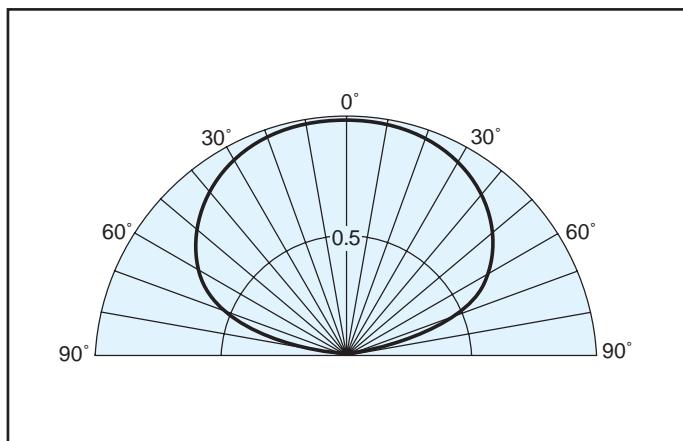
Part No.	Chip		Lens Color	Luminous Intensity			Wavelength			Forward Voltage			Reverse Current		
	Material	Emitted Color		IV MIN	IV TYP	IV If	λ d TYP	λ p TYP	Δλ TYP	IF	Vf TYP	Vf MAX	IF	Ir MAX	Ir VR
UB1113F	InGaN	Blue	Milky White	17	34	10	470	465	26	10	3.4	3.9	10	100	5
UC1113F	InGaN	Blue Green		80	160	10	508	502	30	10	3.4	3.9	10	100	5
UG1113F	InGaN	Green		96	160	10	530	522	35	10	3.4	3.9	10	100	5
UY1113F	AlGaInP	Yellow		50	100	20	590	592	18	20	2.2	2.8	20	100	5
UR1113F	AlGaInP	Red		50	100	20	630	641	18	20	2.2	2.8	20	100	5
Units				mcd	mcd	mA	nm	nm	nm	mA	V	V	mA	μA	V

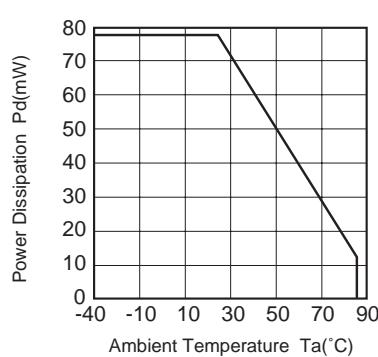
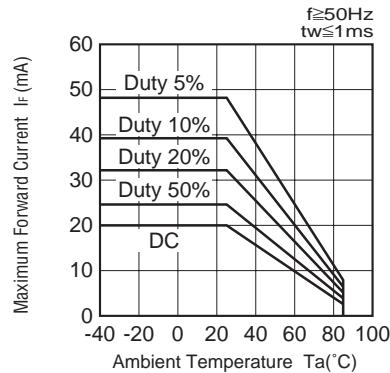
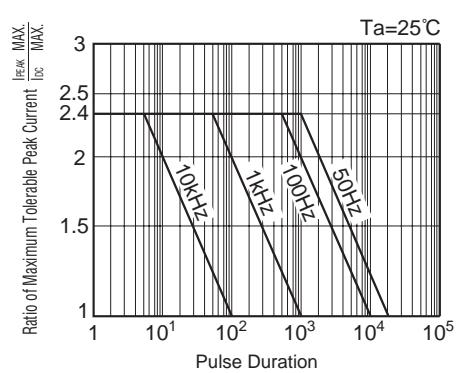
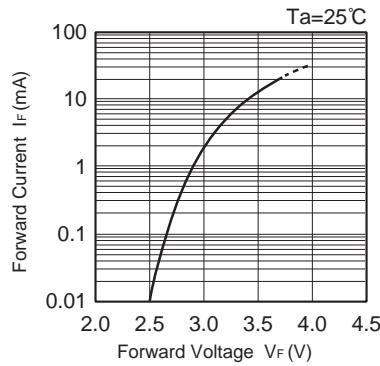
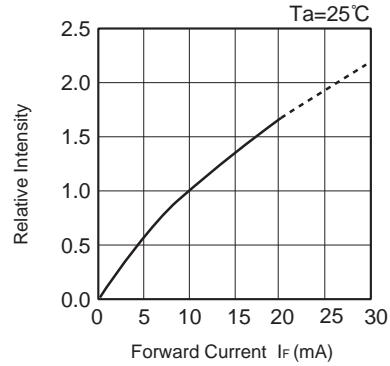
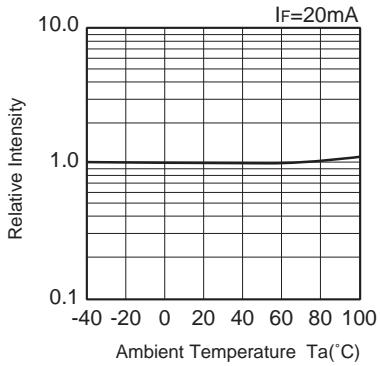
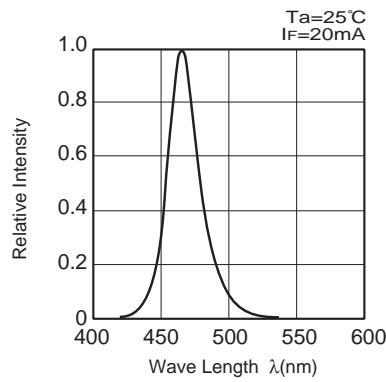
Package Dimensions

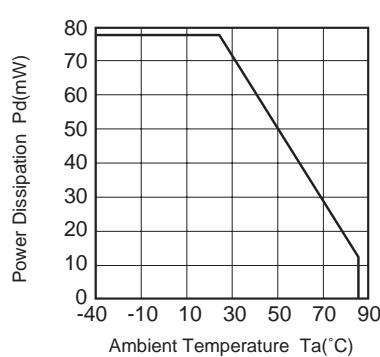
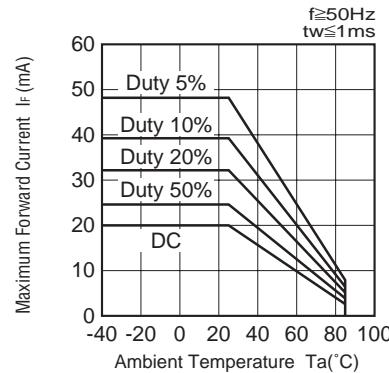
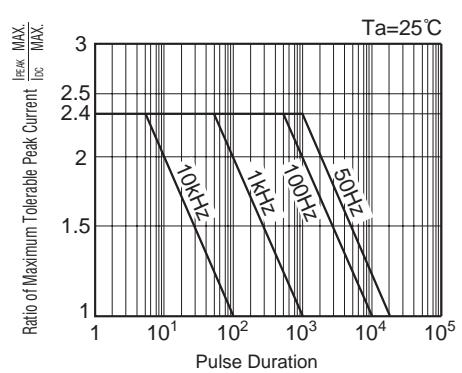
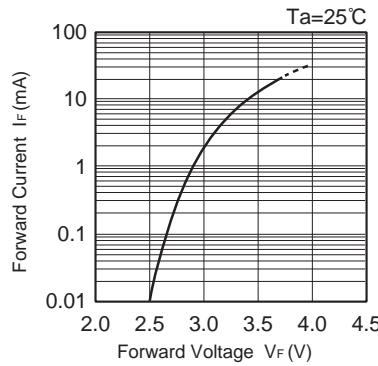
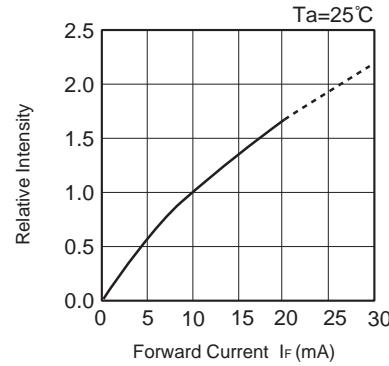
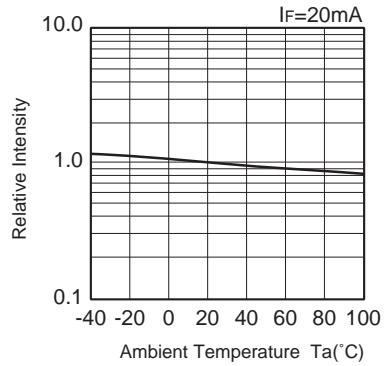
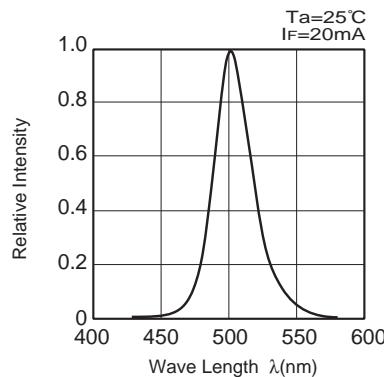
Unit : mm

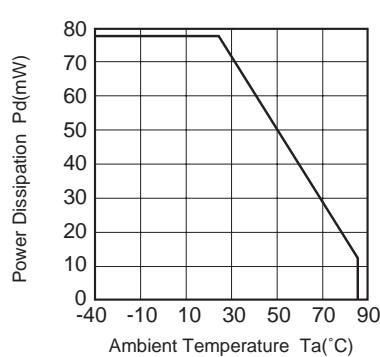
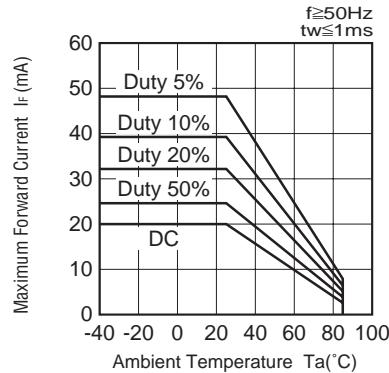
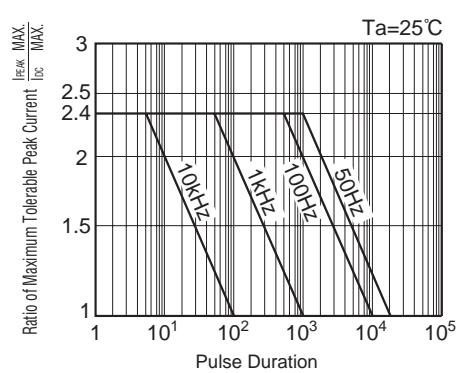
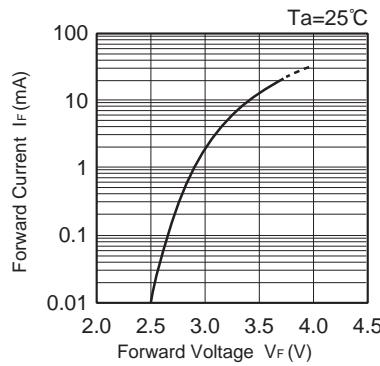
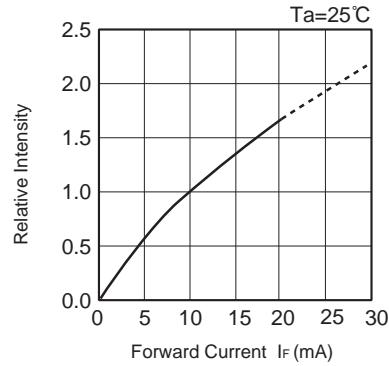
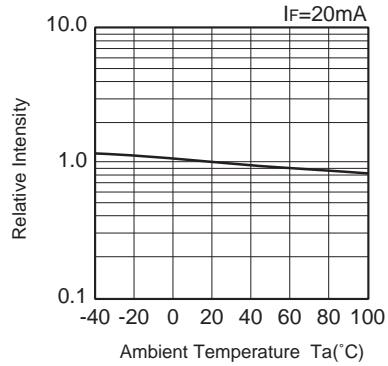
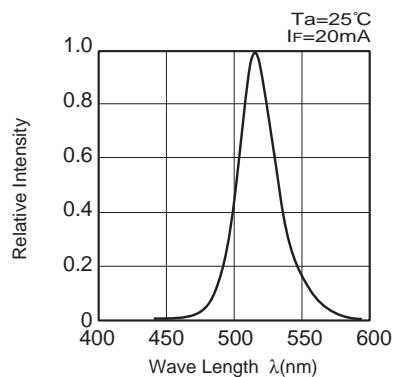
**Spatial Distribution****Taping Specification**

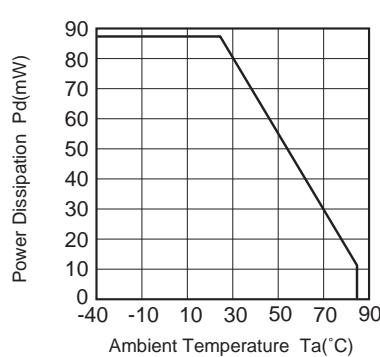
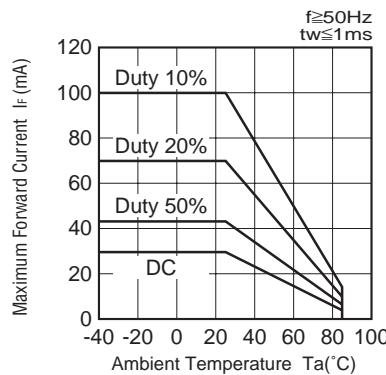
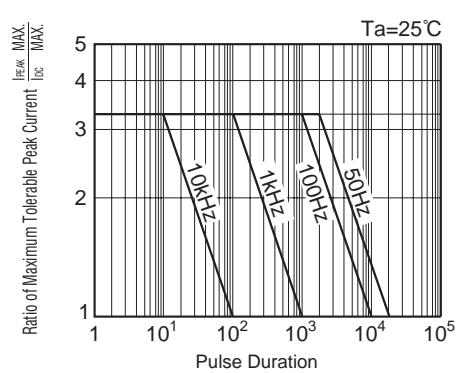
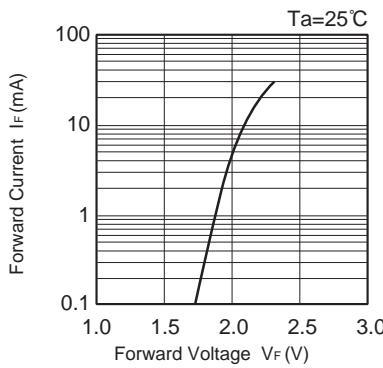
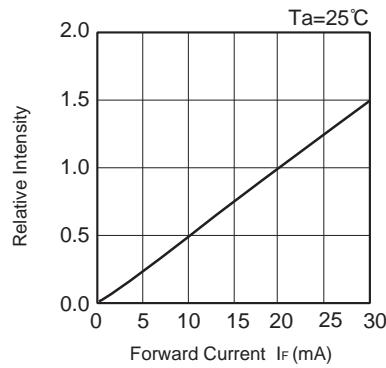
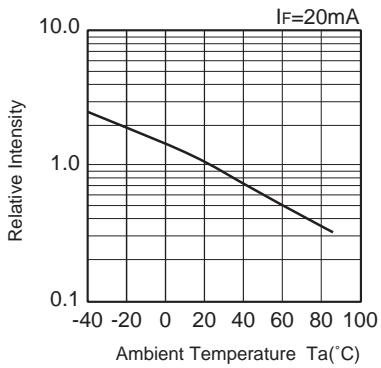
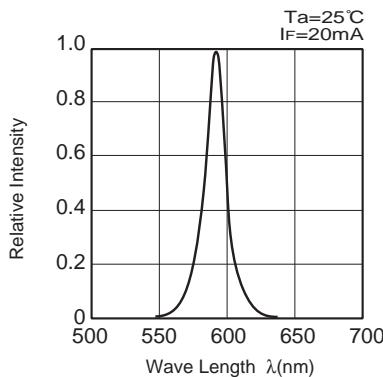
Unit : mm

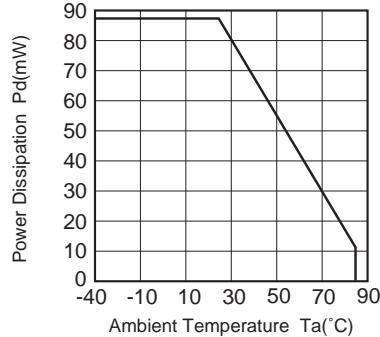
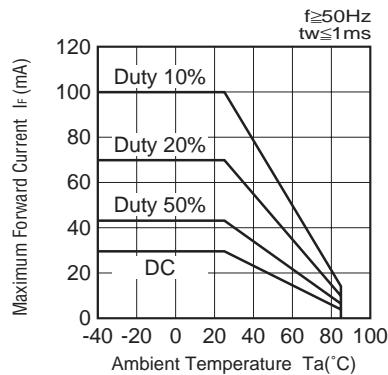
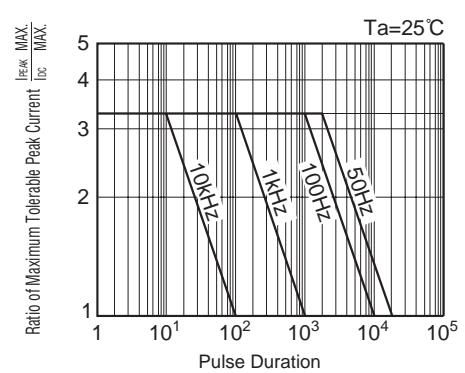
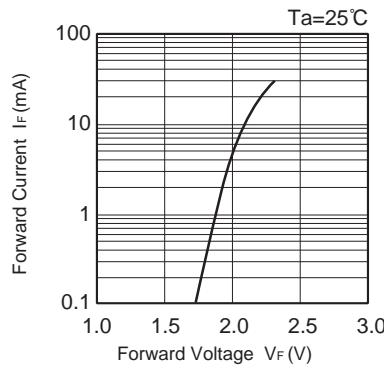
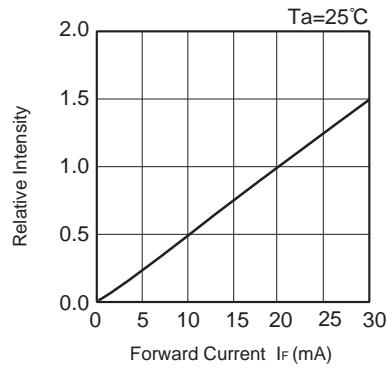
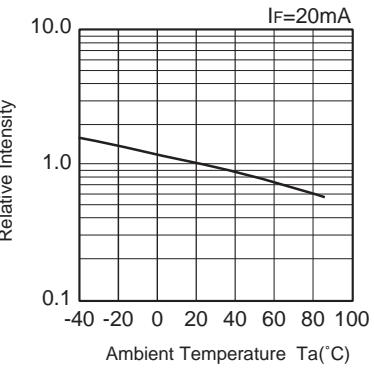


ULTRA HIGH BRIGHTNESS TYPE SURFACE MOUNT LED**UB1113F****■ Power Dissipation vs. Ambient Temperature****■ Ambient Temperature vs. Maximum Forward Current****■ Pulse Duration vs. Maximum Tolerable Peak Current****■ Forward Voltage vs. Forward Current****■ Forward Current vs. Relative Intensity****■ Ambient Temperature vs. Relative Intensity****■ Spectral Distribution**

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