



# ■ ULTRA HIGH BRIGHTNESS TYPE LED

## 5306X / 5366X Series



Ø 5mm Round Shape Type

### ■ Absolute Maximum Ratings

T<sub>a</sub> = 25°C

		Blue	Blue Green	Green	Yellow	Red	Units
		UB	UC	UG	UY	UR	
Power Dissipation	Pd	105	105	105	150	150	mW
Forward Current	I <sub>F</sub>	25	25	25	50	50	mA
Peak Forward Current	I <sub>FM</sub>	60	60	60	100	100	mA
Reverse Voltage	V <sub>R</sub>	5	5	5	5	5	V
Operating Temp.	T <sub>opr</sub>	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	°C
Storage Temp.	T <sub>stg</sub>	-40~+100	-40~+100	-40~+100	-40~+100	-40~+100	°C
Derating *	ΔI <sub>F</sub>	0.33	0.33	0.33	0.67	0.67	mA/°C

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

• I<sub>FM</sub> Condition : t<sub>w</sub> ≤ 1ms, Duty ≤ 1/20

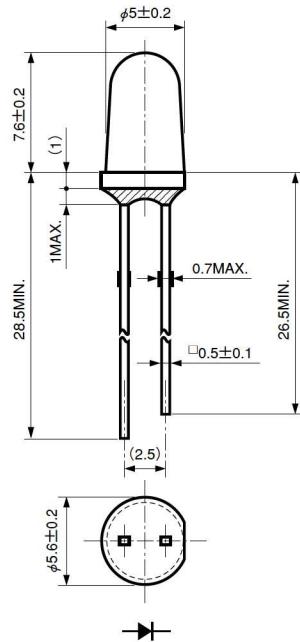
### ■ Electro-Optical Characteristics

T<sub>a</sub> = 25°C

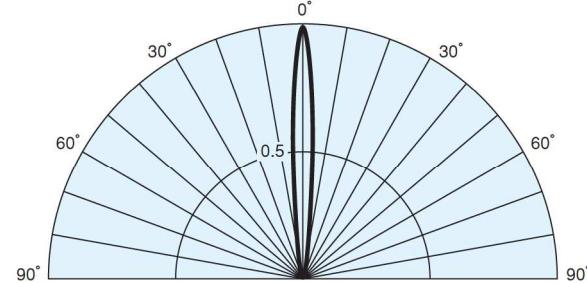
Part No.	Chip		Lens	Luminous Intensity			Wavelength			Forward Voltage			Reverse Current		
				MIN	TYP	I <sub>F</sub>	λ <sub>d</sub>	λ <sub>p</sub>	Δλ	TYP	MAX	I <sub>F</sub>	V <sub>F</sub>		
	Material	Emitted Color								TYP			MAX	V <sub>R</sub>	
UB5306X	InGaN	Blue	Water Clear	1,000	2,800	20	470	465	26	20	3.7	4.2	20	100	5
UC5306X	InGaN	Blue Green		2,400	6,720	20	505	502	30	20	3.7	4.2	20	100	5
UG5306X	InGaN	Green	Clear	3,360	6,720	20	525	517	35	20	3.7	4.2	20	100	5
UY5366X	AlGaInP	Yellow		2,000	4,000	20	590	592	18	20	2.2	2.8	20	100	5
UR5366X	AlGaInP	Red	Pastel Yellow	1,800	3,600	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



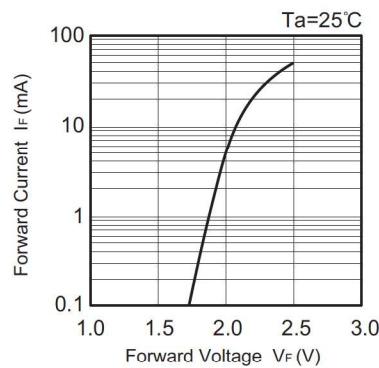
### ■ Spatial Distribution



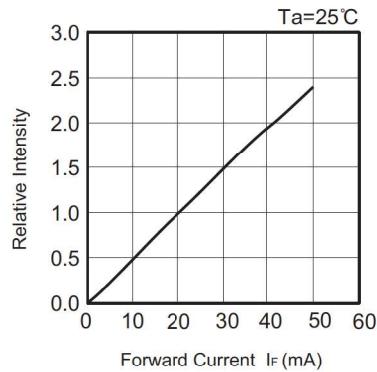


# ■ ULTRA HIGH BRIGHTNESS TYPE LED UR5366X

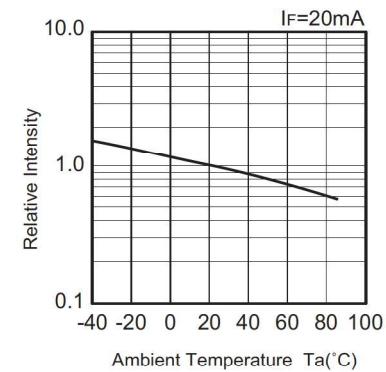
■ Forward Voltage vs. Forward Current



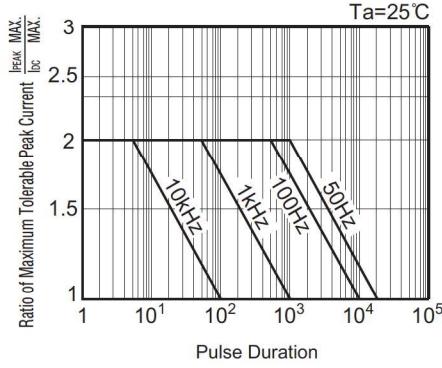
■ Forward Current vs. Relative Intensity



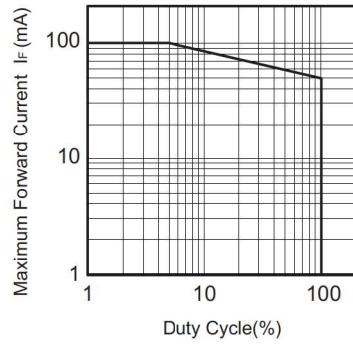
■ Ambient Temperature vs. Relative Intensity



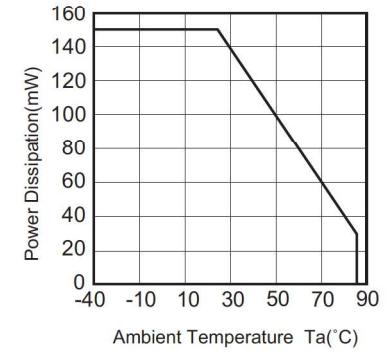
■ Pulse Duration vs. Maximum Tolerable Peak Current



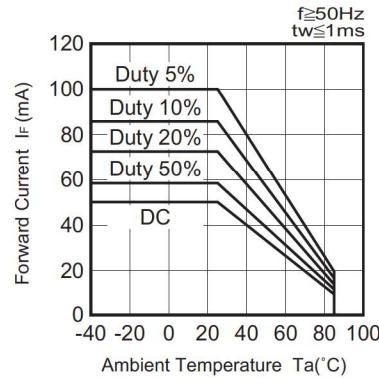
■ Duty Cycle vs. Maximum Forward Current



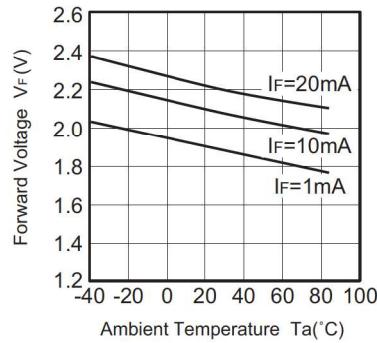
■ Power Dissipation vs. Ambient Temperature



■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



■ Spectral Distribution

