

■ Absolute Maximum Ratings

Ta = 25°C

		Blue	Blue Green	Green	Yellow	Red	Units
		UB	UC	UG	UY	UR	
Power Dissipation	Pd	78	78	78	87	87	mW
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)

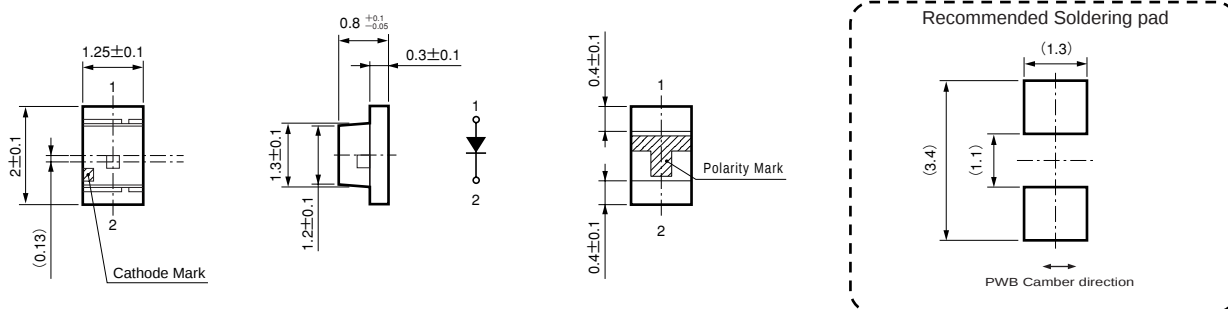
■ Electro-Optical Characteristics

Ta = 25°C

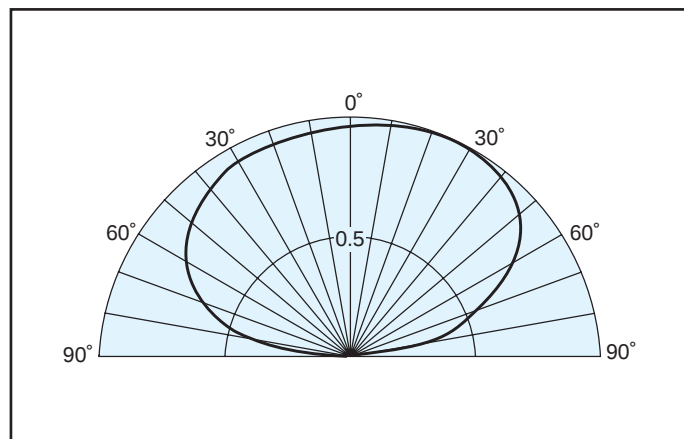
Part No.	Chip		Lens Color	Luminous Intensity			Wavelength				Forward Voltage			Reverse Current	
				I _v			λ _d	λ _p	Δλ	V _F			I _R		
	MIN	TYP		I _F	TYP	TYP	TYP	I _F	TYP	MAX	I _F	MAX	V _R		
UB1112H	InGaN	Blue	Milky White	17	34	10	470	465	26	10	3.4	3.9	10	100	5
UC1112H	InGaN	Blue Green		80	160	10	508	502	30	10	3.4	3.9	10	100	5
UG1112H	InGaN	Green		96	160	10	530	522	35	10	3.4	3.9	10	100	5
UY1112H	AlGaInP	Yellow		50	100	20	590	592	18	20	2.2	2.8	20	100	5
UR1112H	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

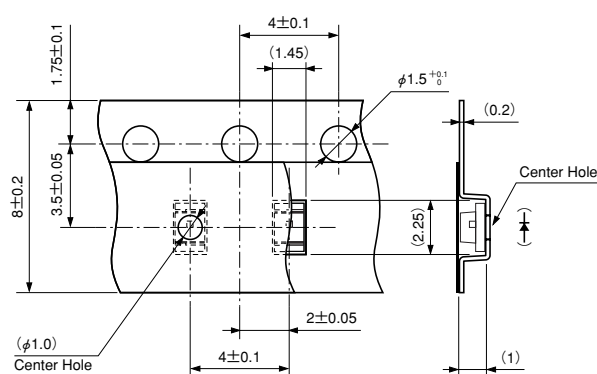


■ Spatial Distribution



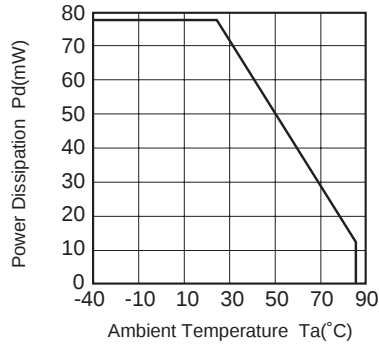
■ Taping Specification

Unit : mm

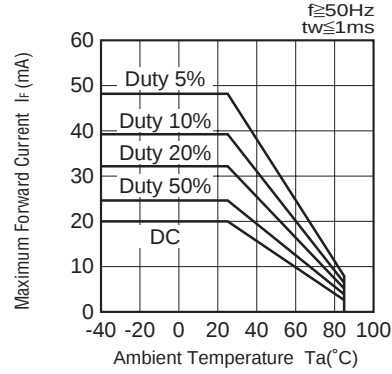


* Quantity 4,000 pcs/Reel

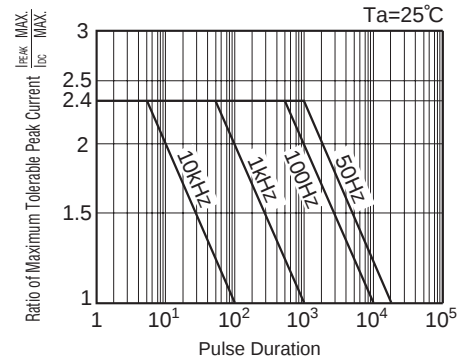
■ Power Dissipation vs. Ambient Temperature



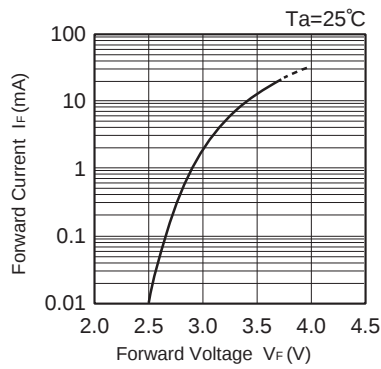
■ Ambient Temperature vs. Maximum Forward Current



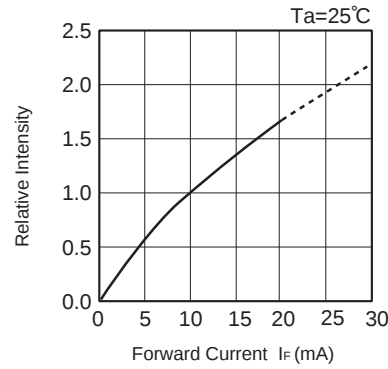
■ Pulse Duration vs. Maximum Tolerable Peak Current



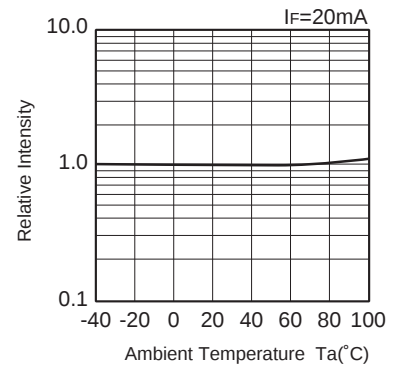
■ Forward Voltage vs. Forward Current



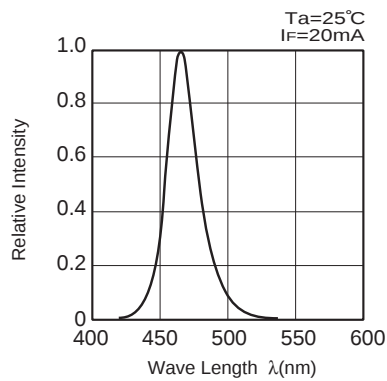
■ Forward Current vs. Relative Intensity



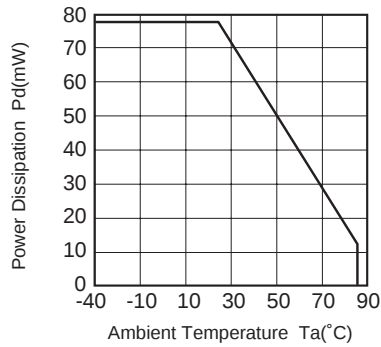
■ Ambient Temperature vs. Relative Intensity



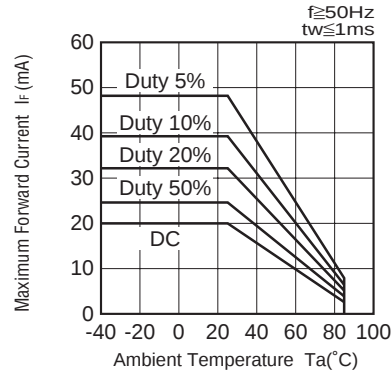
■ Spectral Distribution



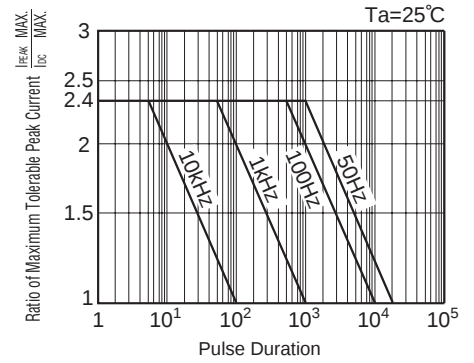
■ Power Dissipation vs. Ambient Temperature



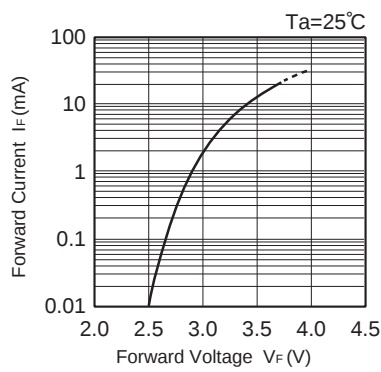
■ Ambient Temperature vs. Maximum Forward Current



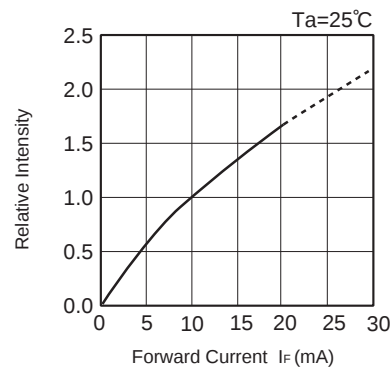
■ Pulse Duration vs. Maximum Tolerable Peak Current



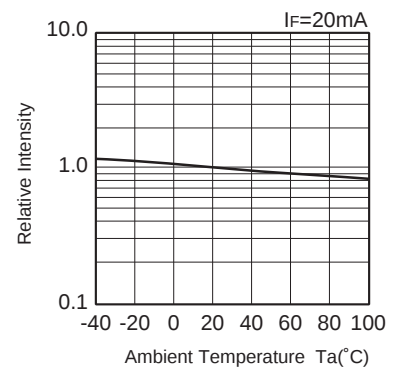
■ Forward Voltage vs. Forward Current



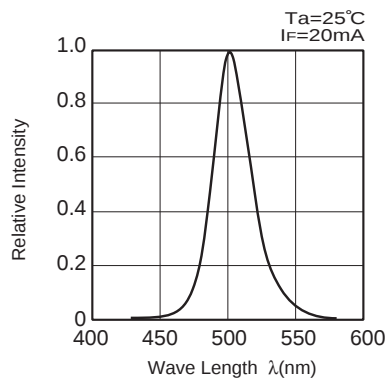
■ Forward Current vs. Relative Intensity



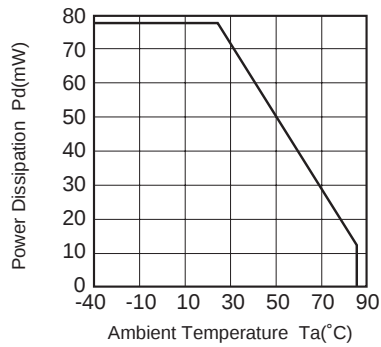
■ Ambient Temperature vs. Relative Intensity



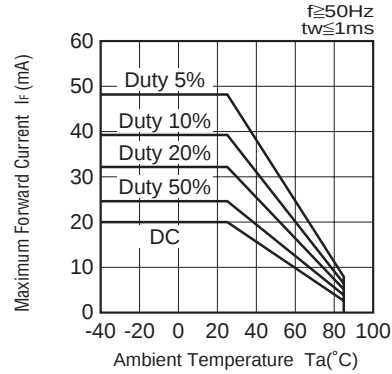
■ Spectral Distribution



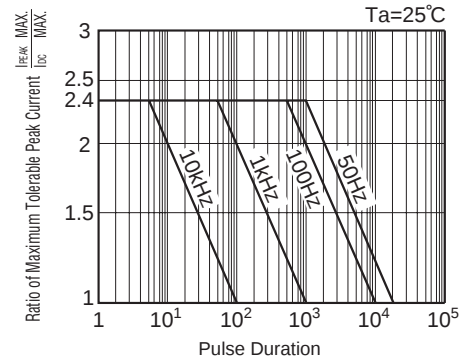
■ Power Dissipation vs. Ambient Temperature



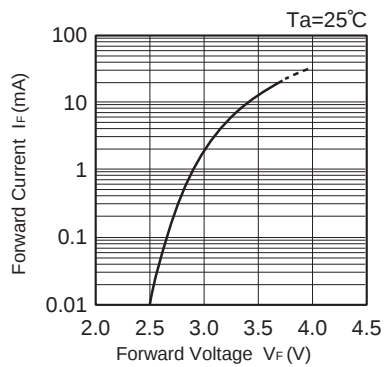
■ Ambient Temperature vs. Maximum Forward Current



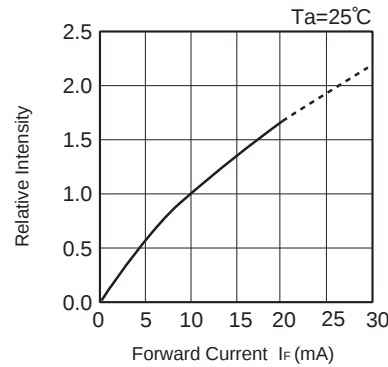
■ Pulse Duration vs. Maximum Tolerable Peak Current



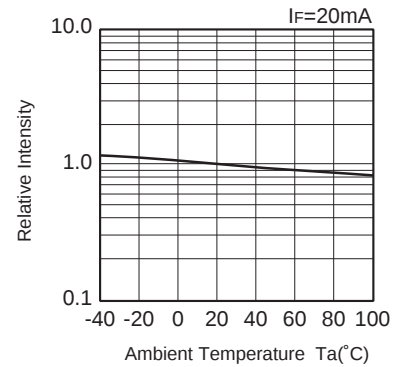
■ Forward Voltage vs. Forward Current



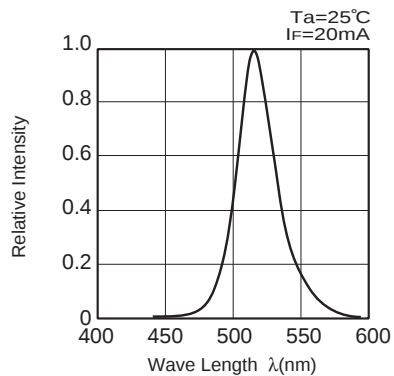
■ Forward Current vs. Relative Intensity



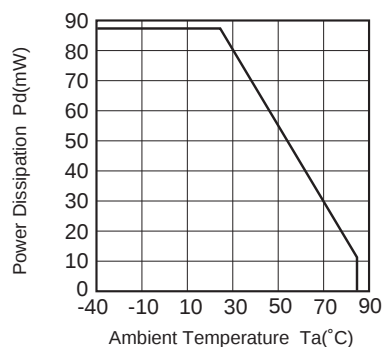
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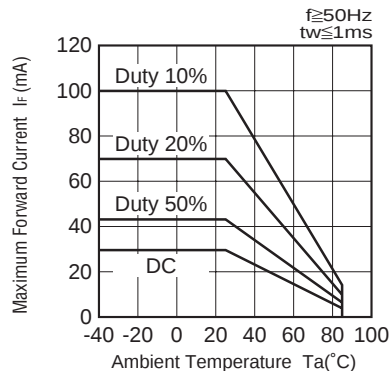
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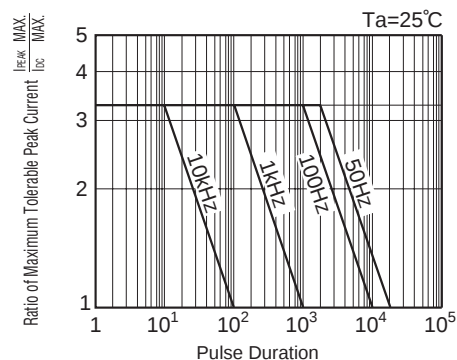
■ Power Dissipation vs. Ambient Temperature



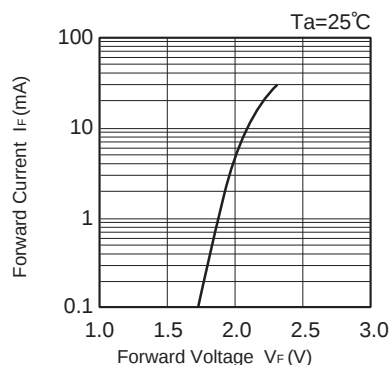
■ Ambient Temperature vs. Maximum Forward Current



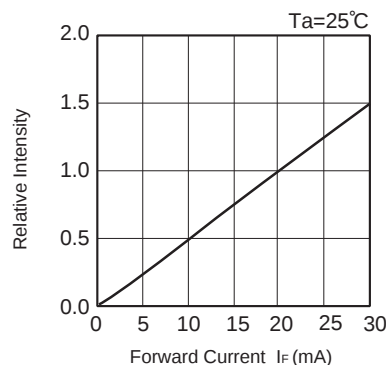
■ Pulse Duration vs. Maximum Tolerable Peak Current



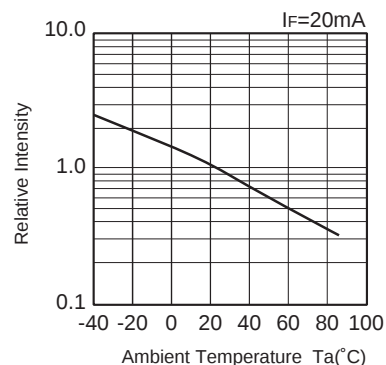
■ Forward Voltage vs. Forward Current



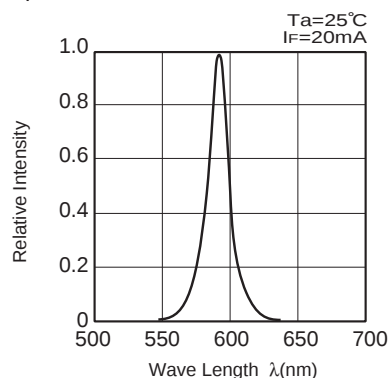
■ Forward Current vs. Relative Intensity



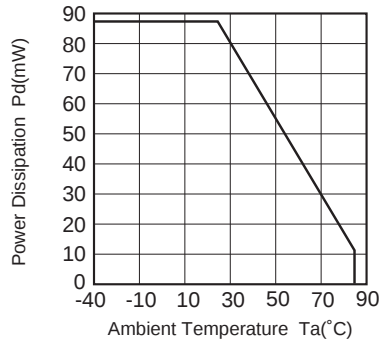
■ Ambient Temperature vs. Relative Intensity



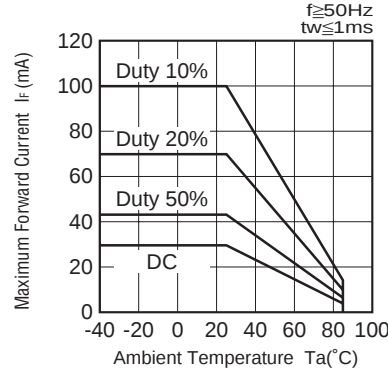
■ Spectral Distribution



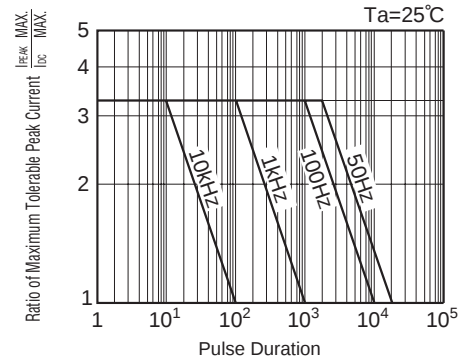
■ Power Dissipation vs. Ambient Temperature



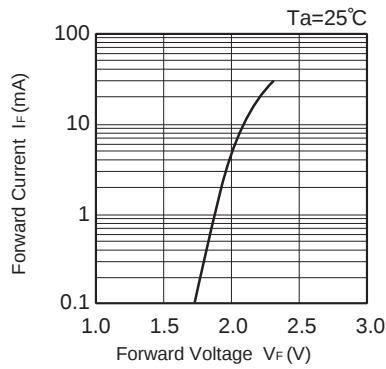
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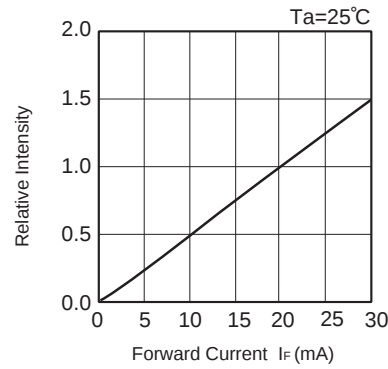
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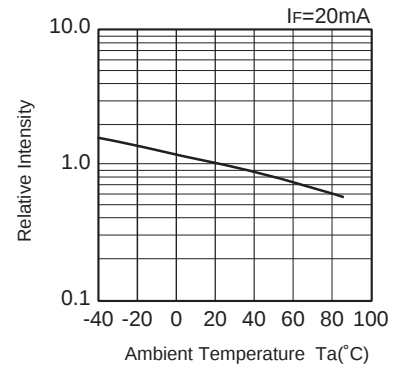
■ Forward Voltage vs. Forward Current



■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution

