



■ HIGH BRIGHTNESS TYPE SURFACE MOUNT LED

1101F Series

Right Angle Type 3.0X2.0mm



■ Absolute Maximum Ratings

Ta = 25°C

		Yellow	Orange	Red	Units
		FY	FA	FR	
Power Dissipation	Pd	81	81	81	mW
Forward Current	IF	30	30	30	mA
Peak Forward Current	IFM	100	100	100	mA
Reverse Voltage	VR	5	5	5	V
Operating Temp.	Topr	-40~+85	-40~+85	-40~+85	°C
Storage Temp.	Tstg	-40~+100	-40~+100	-40~+100	°C
Derating *	ΔIF	0.43	0.43	0.43	mA/°C

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

• IFM Condition : tw ≤ 1ms, Duty ≤ 1/10

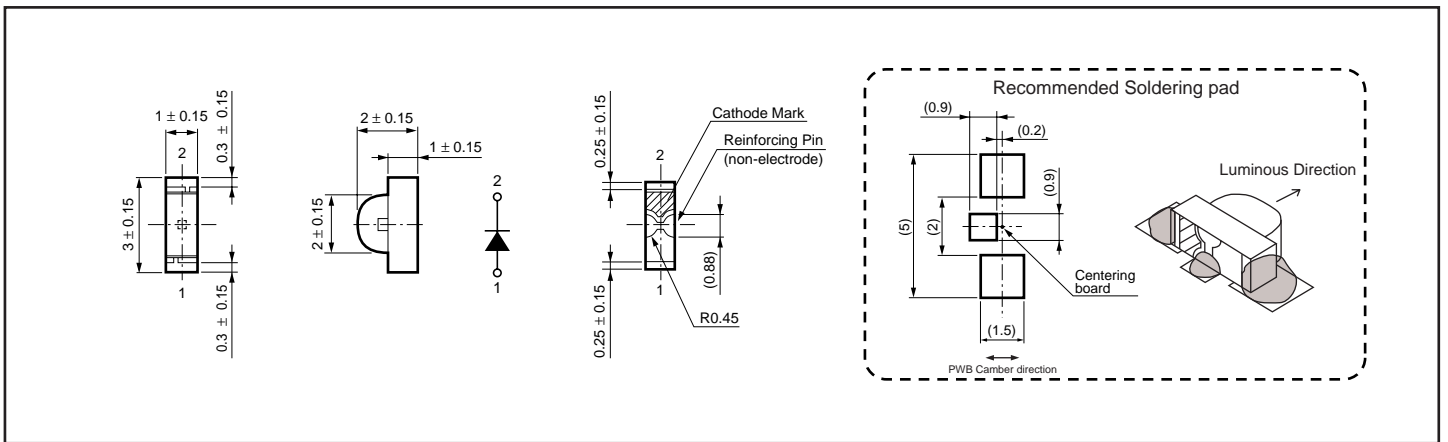
■ Electro-Optical Characteristics

Ta = 25°C

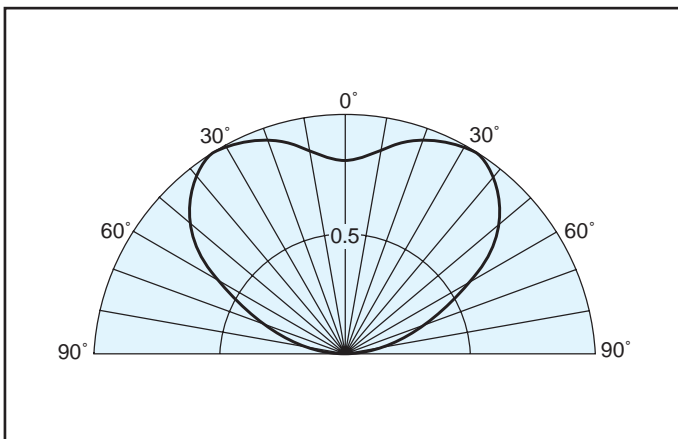
Part No.	Chip		Lens Color	Luminous Intensity			Wavelength				Forward Voltage			Reverse Current		
	Material	Emitted Color		Iv			λ d	λ p		Δλ		VF			IR	
				MIN	TYP	IF	TYP	TYP	IF	TYP	MAX	IF	MAX	VR		
FY1101F	AlGaInP	Yellow	Water Clear	25	65	20	590	592	15	20	1.9	2.4	20	100	5	
FA1101F	AlGaInP	Orange		25	65	20	605	609	15	20	1.9	2.4	20	100	5	
FR1101F	AlGaInP	Red		25	50	20	626	635	15	20	1.9	2.4	20	100	5	
Units				mcd	mcd	mA	nm	nm	nm	mA	V	V	mA	μA	V	

■ Package Dimensions

Unit : mm

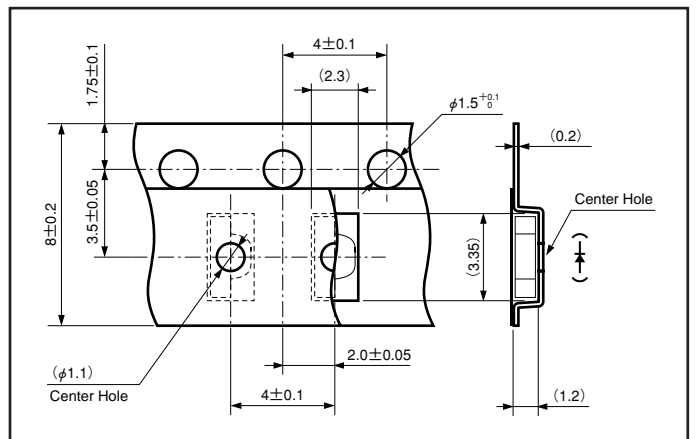


■ Spatial Distribution



■ Taping Specification

Unit : mm



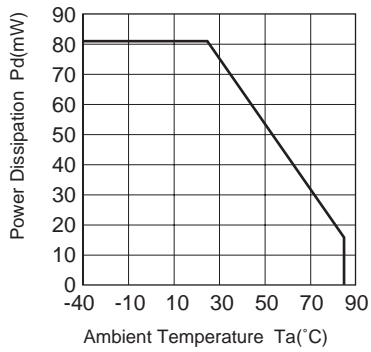
* Quantity 3,000 pcs/Reel



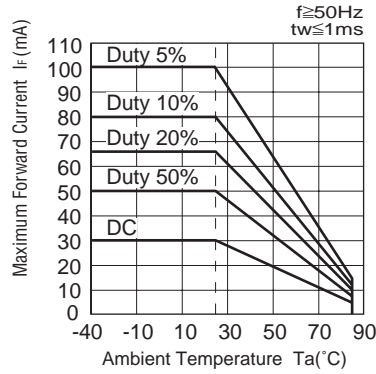
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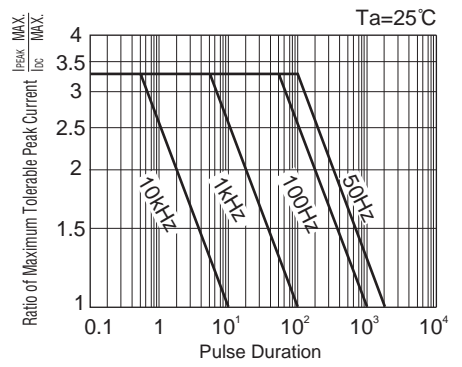
■ Power Dissipation vs. Ambient Temperature



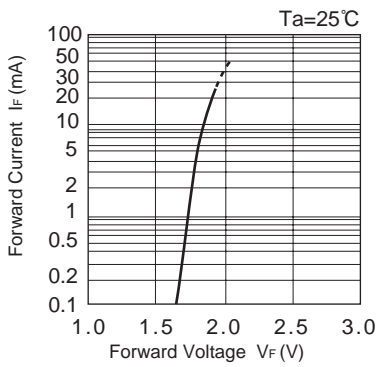
■ Ambient Temperature vs. Maximum Forward Current



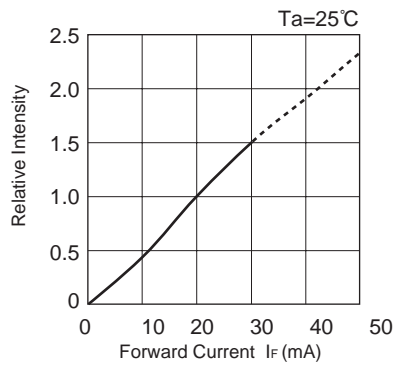
■ Pulse Duration vs. Maximum Tolerable Peak Current



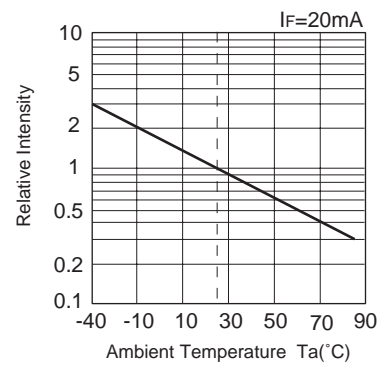
■ Forward Voltage vs. Forward Current



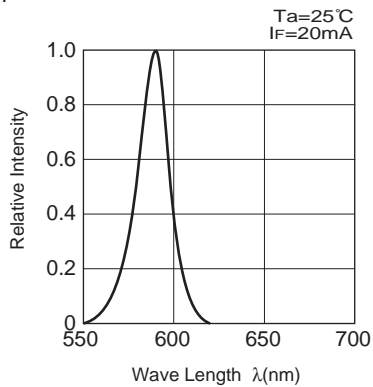
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution

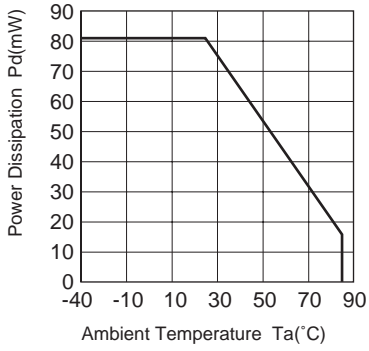




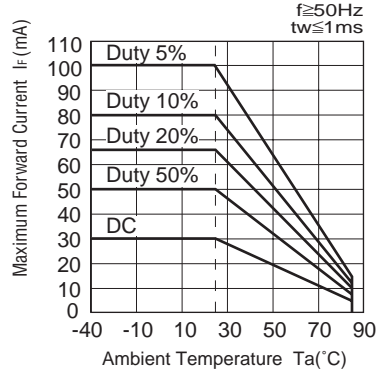
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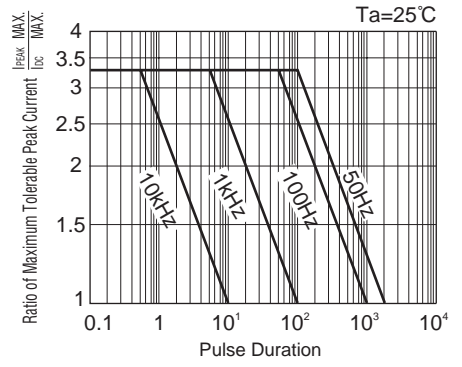
■ Power Dissipation vs. Ambient Temperature



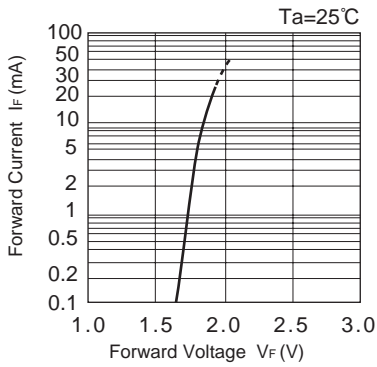
■ Ambient Temperature vs. Maximum Forward Current



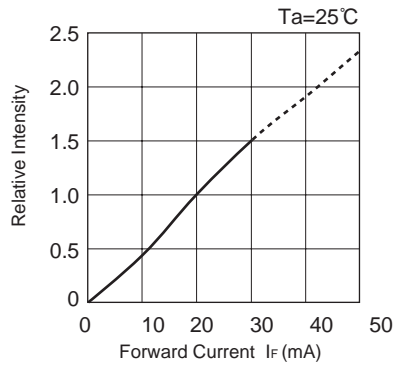
■ Pulse Duration vs. Maximum Tolerable Peak Current



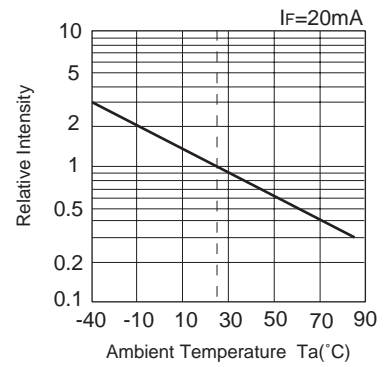
■ Forward Voltage vs. Forward Current



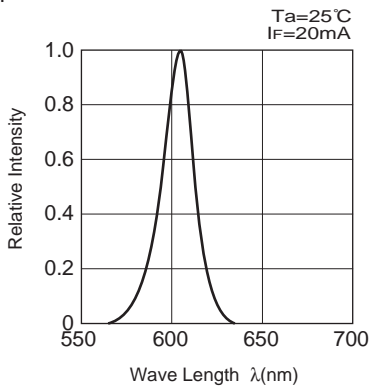
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity

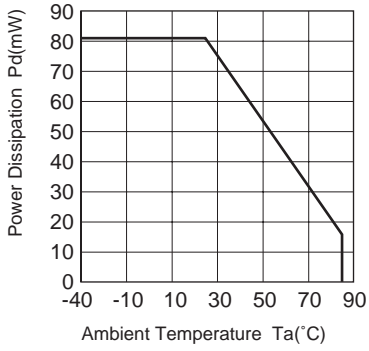


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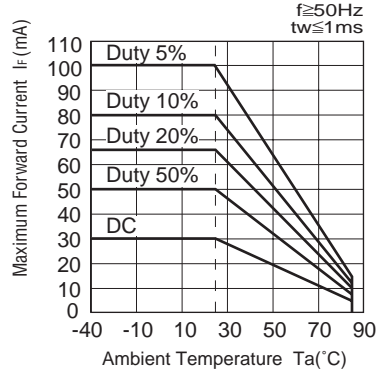


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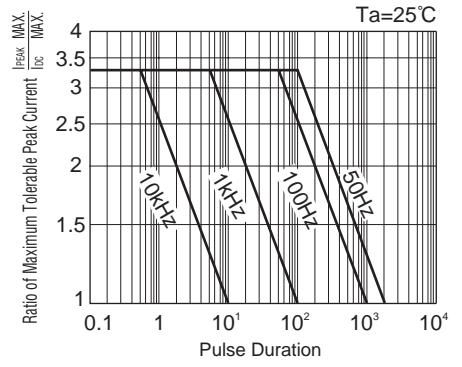
■ Power Dissipation vs. Ambient Temperature



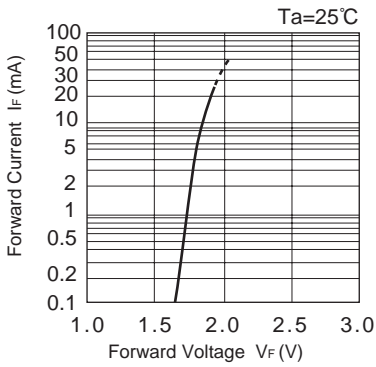
■ Ambient Temperature vs. Maximum Forward Current



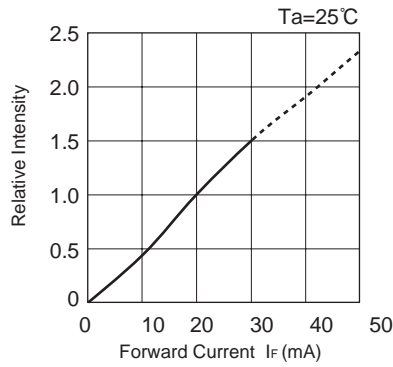
■ Pulse Duration vs. Maximum Tolerable Peak Current



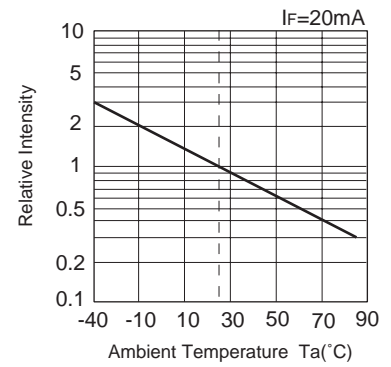
■ Forward Voltage vs. Forward Current



■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution

