



### ■ Absolute Maximum Ratings

Ta = 25°C

		Pure Green	Green	Yellow		Orange	Red	Units
		BG	PG	PY	AY	AA	BR	
Power Dissipation	Pd	75	75	75	75	75	60	mW
Forward Current	IF	30	30	30	30	30	30	mA
Peak Forward Current	IFM	70	70	70	70	70	70	mA
Reverse Voltage	VR	4	4	4	4	4	4	V
Operating Temp.	Topr	-30~+85	-30~+85	-30~+85	-30~+85	-30~+85	-30~+85	°C
Storage Temp.	Tstg	-40~+100	-40~+100	-40~+100	-40~+100	-40~+100	-40~+100	°C
Derating *	ΔIF	0.42	0.42	0.42	0.42	0.42	0.42	mA/°C

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

• IFM Condition : tw ≤ 1ms, Duty ≤ 1/20

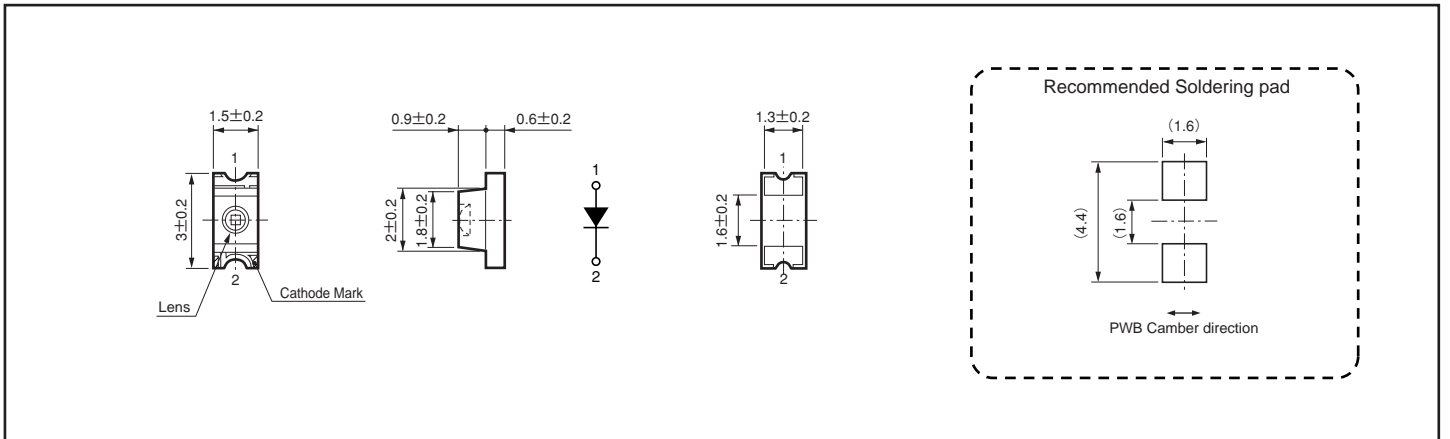
### ■ Electro-Optical Characteristics

Ta = 25°C

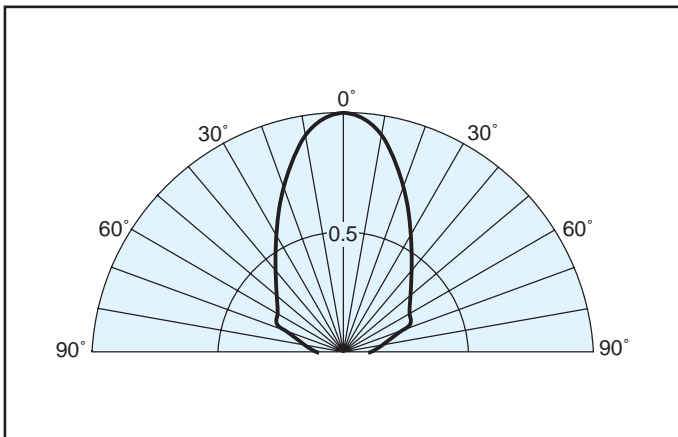
Part No.	Chip		Lens Color	Luminous Intensity			Wavelength				Forward Voltage			Reverse Current		
	Material	Emitted Color		Iv			λ d	λ p		Δλ		VF			IR	
				MIN	TYP	IF	TYP	TYP	TYP	TYP	IF	TYP	MAX	IF	MAX	VR
BG1102W	GaP	Pure Green	Water Clear	1.8	4.8	20	558	555	30	20	2.1	2.5	20	100	4	
PG1102W	GaP	Green		6	12	20	567	560	30	20	2.1	2.5	20	100	4	
PY1102W	GaP	Yellow		12	24	20	572	570	30	20	2.1	2.5	20	100	4	
AY1102W	GaAsP			3	6	20	590	580	30	20	2.2	2.5	20	100	4	
AA1102W	GaAsP	Orange		5	9	20	606	605	30	20	2.2	2.5	20	100	4	
BR1102W	GaAlAs	Red		12	33.6	20	647	660	30	20	1.7	2.0	20	100	4	
Units			mcd	mcd	mA	nm	nm	nm	mA	V	V	mA	μA	V		

### ■ Package Dimensions

Unit : mm

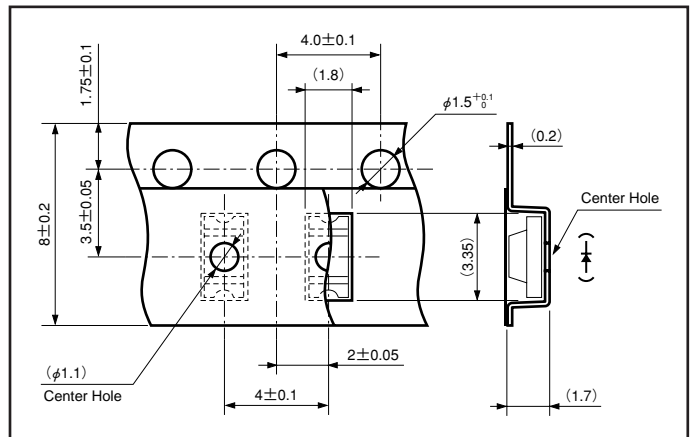


### ■ Spatial Distribution



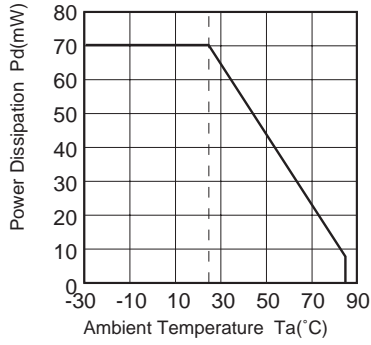
### ■ Taping Specification

Unit : mm

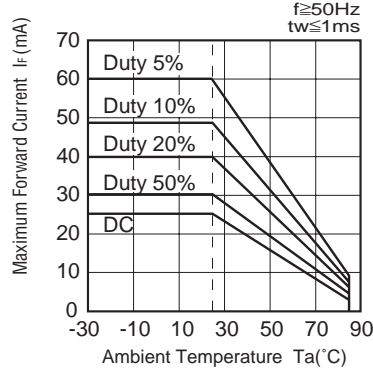


\* Quantity 2,500 pcs/Reel

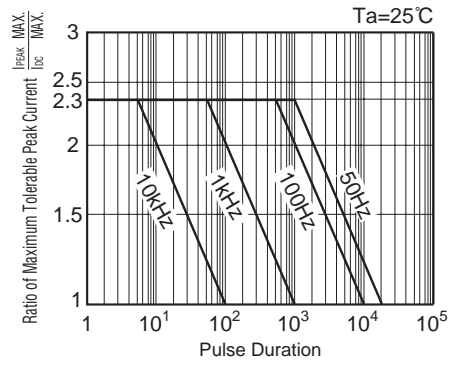
■ Power Dissipation vs. Ambient Temperature



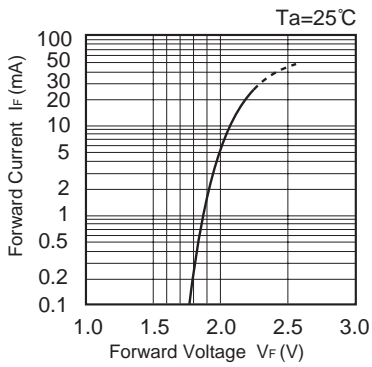
■ Ambient Temperature vs. Maximum Forward Current



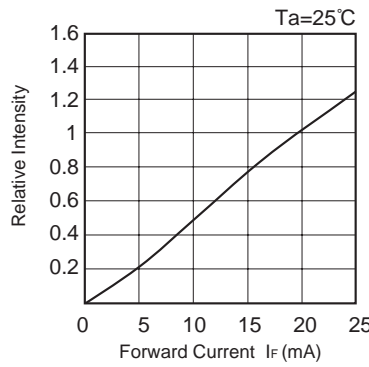
■ Pulse Duration vs. Maximum Tolerable Peak Current



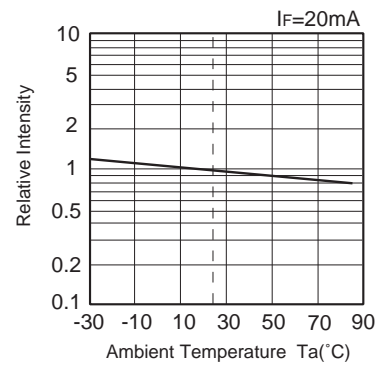
■ Forward Voltage vs. Forward Current



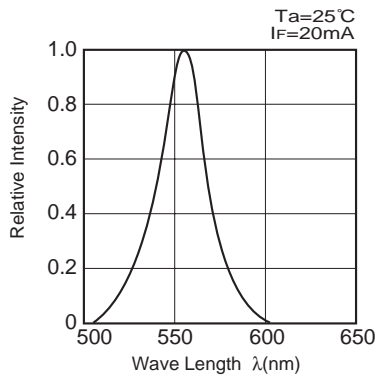
■ Forward Current vs. Relative Intensity



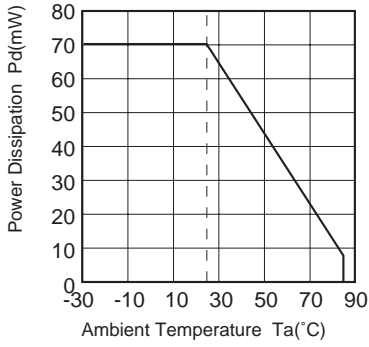
■ Ambient Temperature vs. Relative Intensity



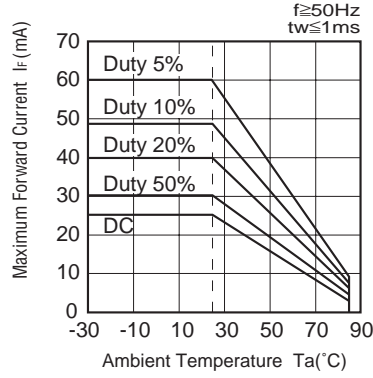
■ Spectral Distribution



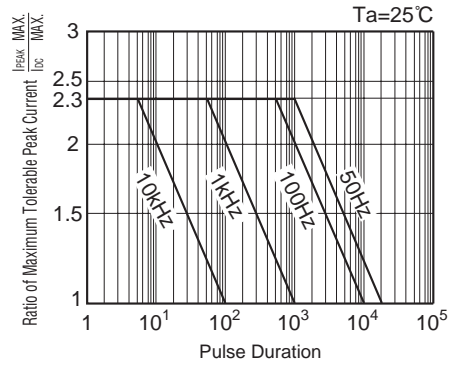
■ Power Dissipation vs. Ambient Temperature



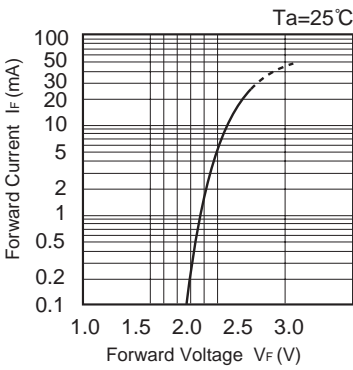
■ Ambient Temperature vs. Maximum Forward Current



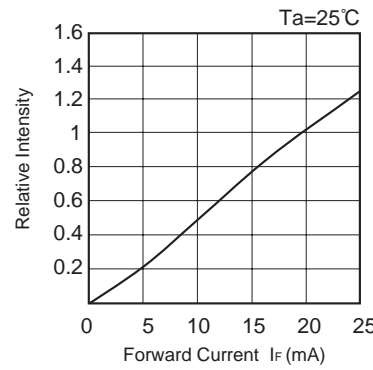
■ Pulse Duration vs. Maximum Tolerable Peak Current



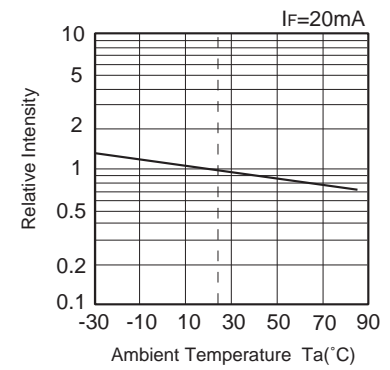
■ Forward Voltage vs. Forward Current



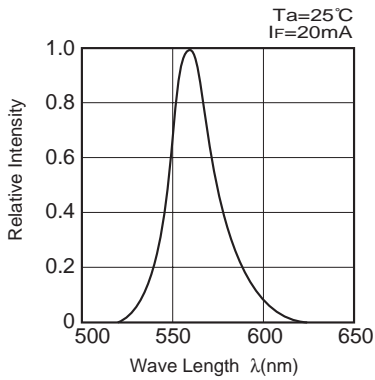
■ Forward Current vs. Relative Intensity



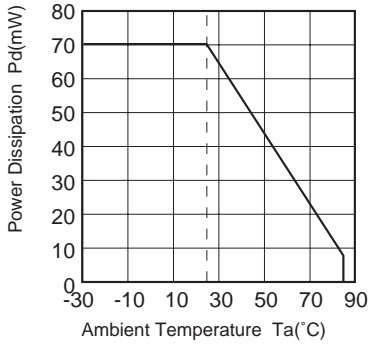
■ Ambient Temperature vs. Relative Intensity



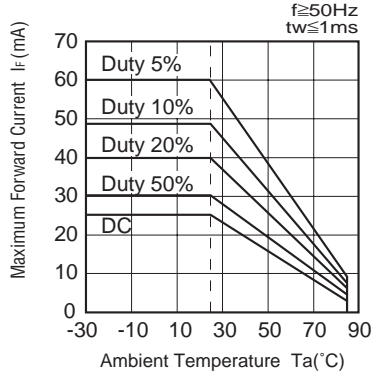
■ Spectral Distribution



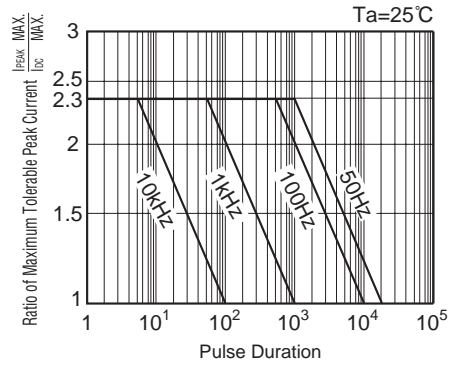
### ■ Power Dissipation vs. Ambient Temperature



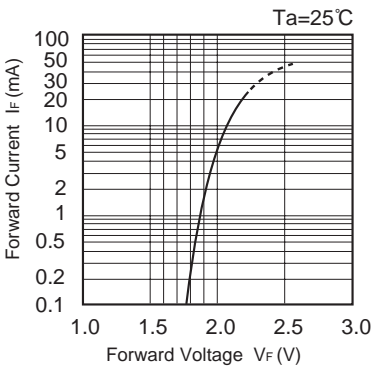
### ■ Ambient Temperature vs. Maximum Forward Current



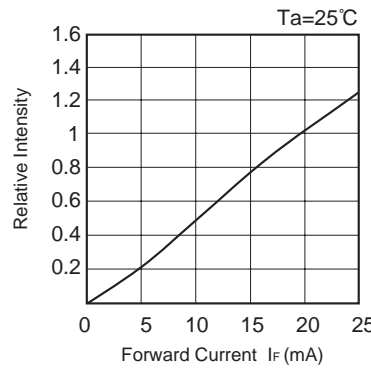
### ■ Pulse Duration vs. Maximum Tolerable Peak Current



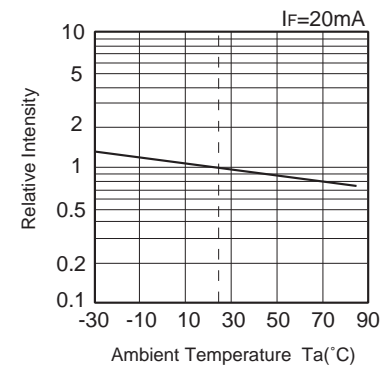
### ■ Forward Voltage vs. Forward Current



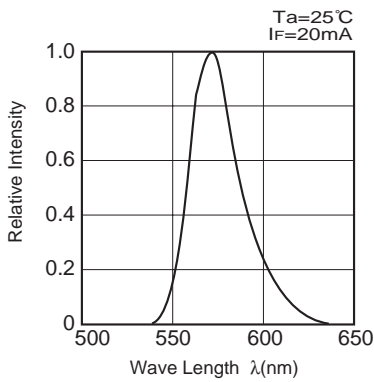
### ■ Forward Current vs. Relative Intensity



### ■ Ambient Temperature vs. Relative Intensity



### ■ Spectral Distribution

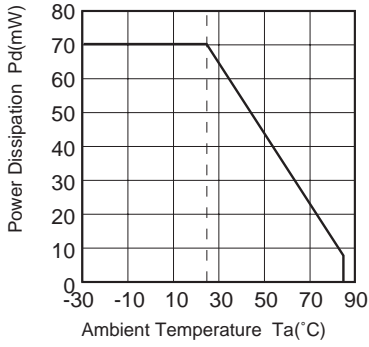




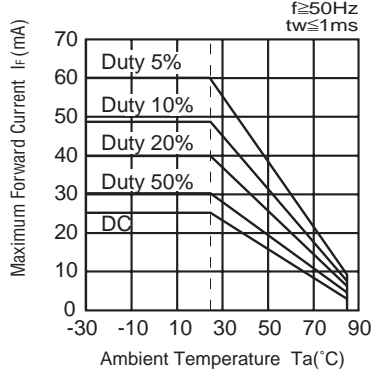
# ■ SURFACE MOUNT LED

## AY1102W

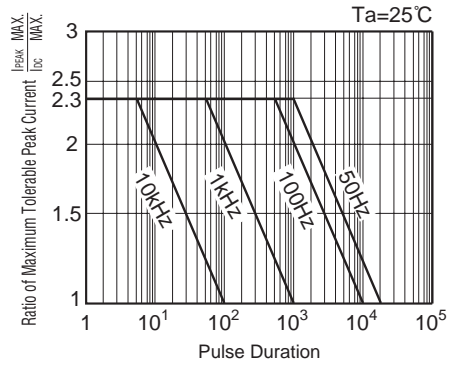
■ Power Dissipation vs. Ambient Temperature



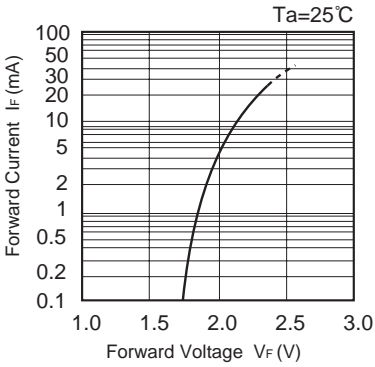
■ Ambient Temperature vs. Maximum Forward Current



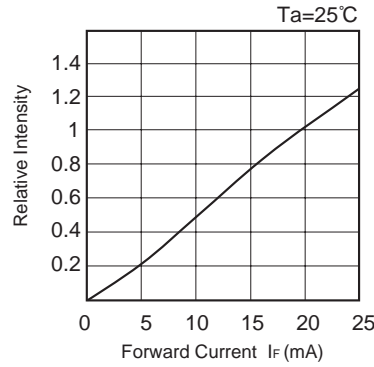
■ Pulse Duration vs. Maximum Tolerable Peak Current



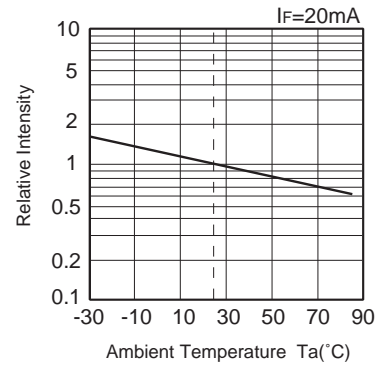
■ Forward Voltage vs. Forward Current



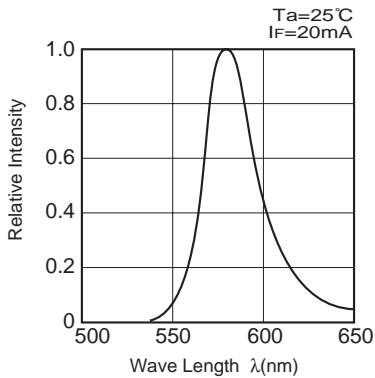
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution

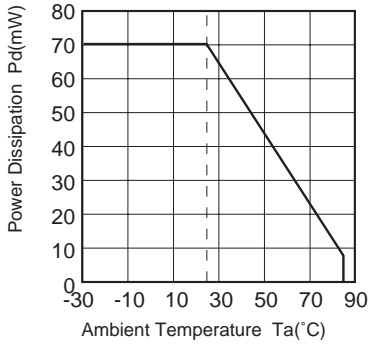




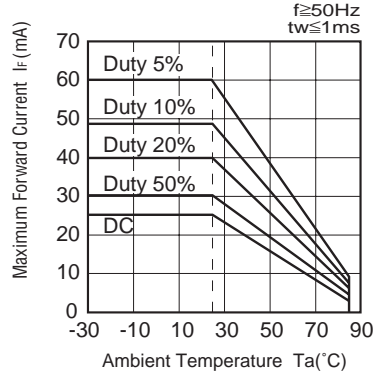
# ■ SURFACE MOUNT LED

## AA1102W

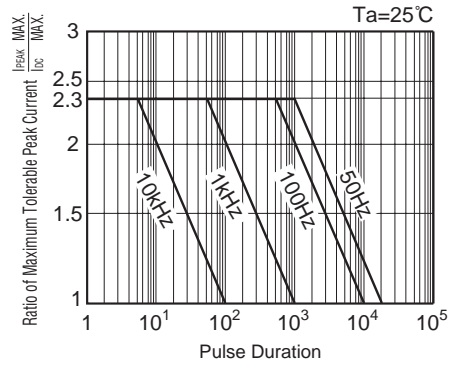
■ Power Dissipation vs. Ambient Temperature



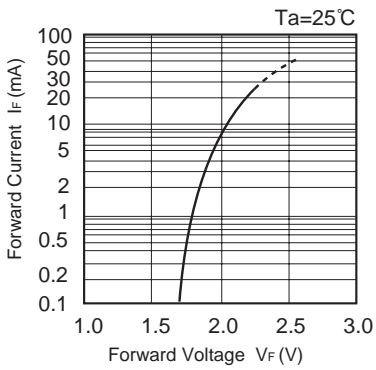
■ Ambient Temperature vs. Maximum Forward Current



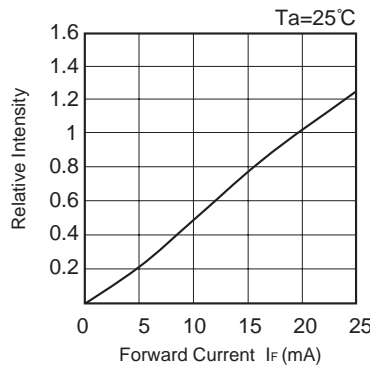
■ Pulse Duration vs. Maximum Tolerable Peak Current



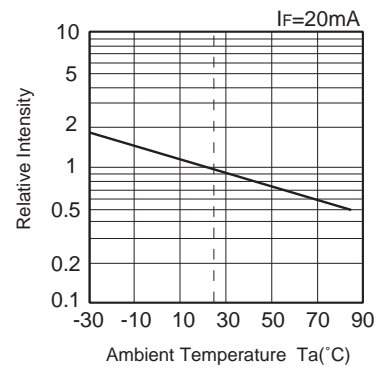
■ Forward Voltage vs. Forward Current



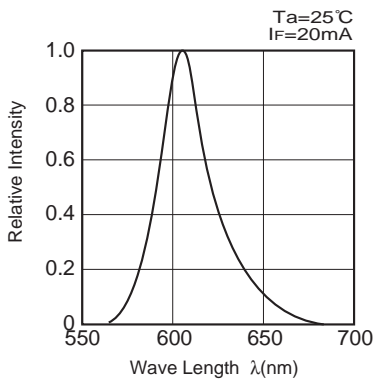
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution

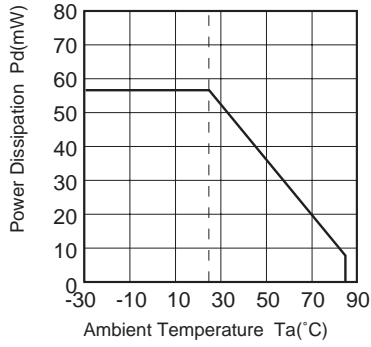




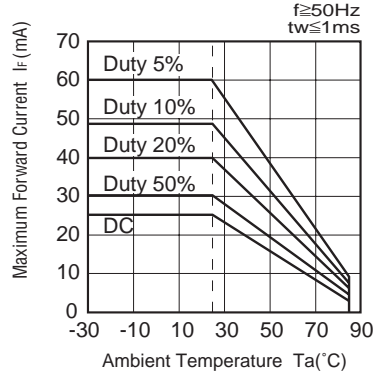
# ■ SURFACE MOUNT LED

## BR1102W

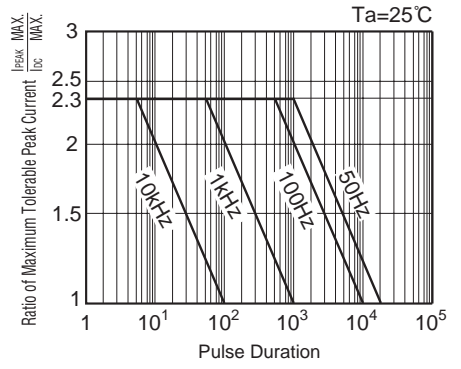
■ Power Dissipation vs. Ambient Temperature



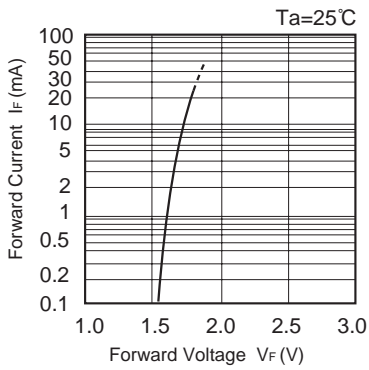
■ Ambient Temperature vs. Maximum Forward Current



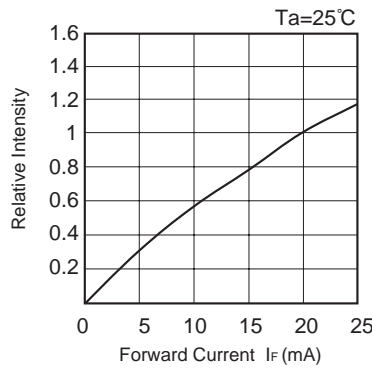
■ Pulse Duration vs. Maximum Tolerable Peak Current



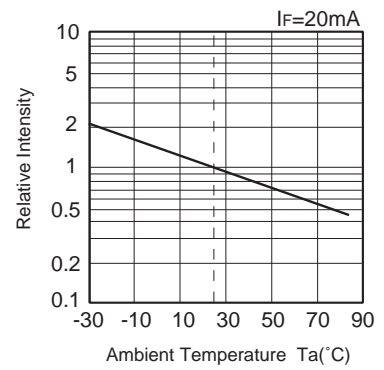
■ Forward Voltage vs. Forward Current



■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution

