■ CHIP TYPE SURFACE MOUNT LED

1111C Series

FLAT Lens Type 1.6X0.8mm

■ Absolute Maximum Ratings

Ta = 25°C

		Red	Orange	Yellow		Green	Pure Green	Unit
		BR	AA	AY	PY	PG	BG	
Power Dissipation	Pb	57.5	70	70	70	70	70	mW
Forward Current	I_F	25	25	25	25	25	25	mA
Peak Forward Current	I_{FM}	60	60	60	60	60	60	mA
Reverse Voltage	V_R	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 *	ΔI_F	0.36(DC), 0.86(Pulse)						mA/°C

* The current derating for operation applies when temperature is above 25°C.
• I_{FM} Condition : tw ≦ 1msec, Duty ≦ 1/20

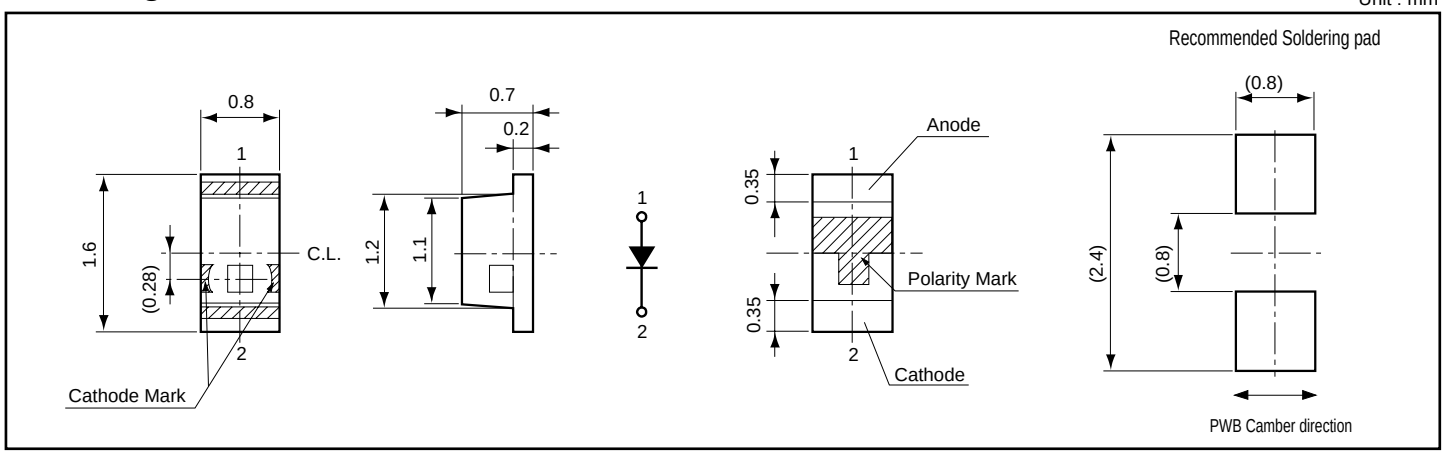
■ Electro-Optical Characteristics

Ta = 25°C

Part No.	Chip		Package Color	Luminous Intensity I_V			Wavelength			Forward Voltage V_F			Reverse Current I_R	
	Material	Emitted Color		MIN	TYP	I_F	λp TYP	$\Delta\lambda$ TYP	I_F	TYP	MAX	I_F	MAX	V_R
BR1111C	GaAlAs	Red	Milky White	7.0	11.7	20	660	30	20	1.7	2.3	20	100	4
AA1111C	GaAsP	Orange		2.0	3.4	20	605	30	20	2.2	2.8	20	100	4
AY1111C	GaAsP	Yellow		2.0	3.4	20	580	30	20	2.2	2.8	20	100	4
PY1111C	GaP			7.0	11.7	20	570	30	20	2.1	2.8	20	100	4
PG1111C	GaP	Green		3.8	6.4	20	560	30	20	2.1	2.8	20	100	4
BG1111C	GaP	Pure Green		1.4	2.4	20	555	30	20	2.1	2.8	20	100	4
Units				mcd	mcd	mA	nm	nm	mA	V	V	mA	μA	V

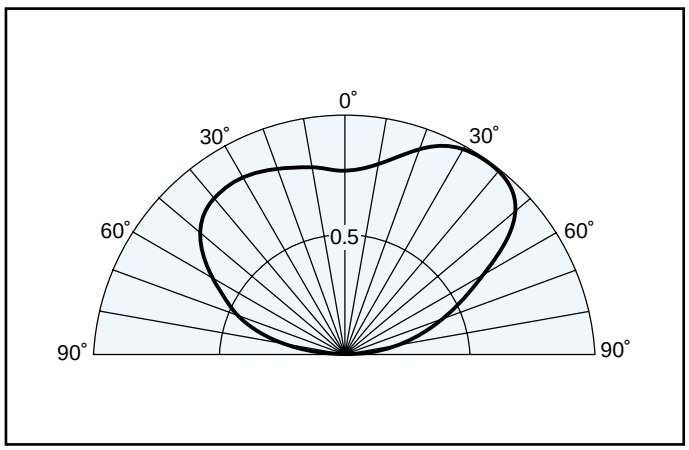
■ Package Dimensions

Unit : mm



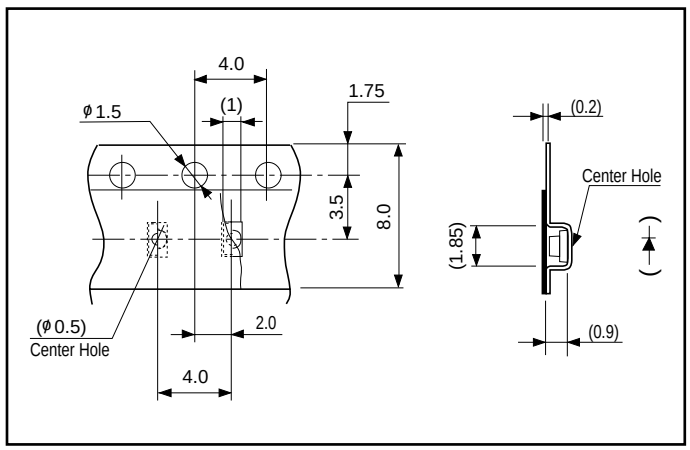
Tolerance : ±0.1mm

■ Spatial Distribution



■ Taping Specification

Unit : mm

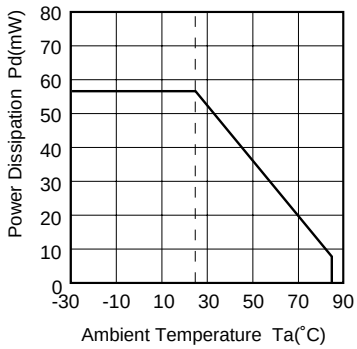


* Quantity 4,000 pcs/Reel

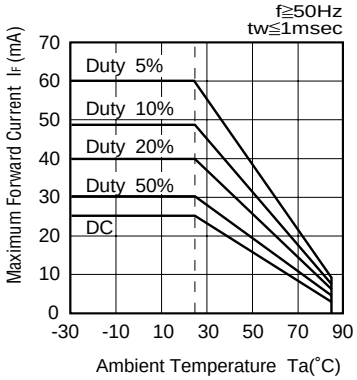
■ CHIP TYPE SURFACE MOUNT LED

BR1111C

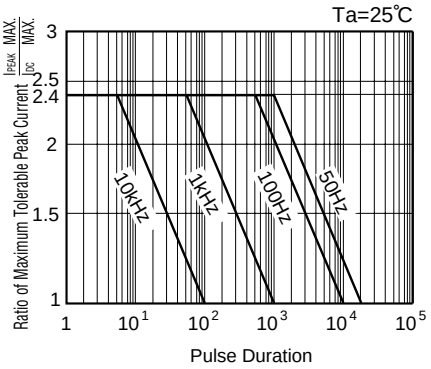
■ Power Dissipation vs. Ambient Temperature



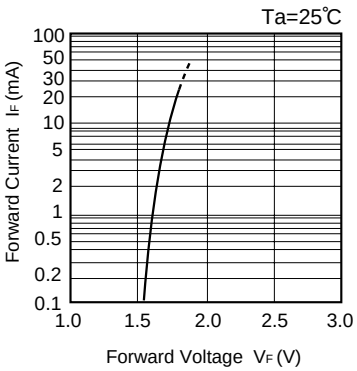
■ Ambient Temperature vs. Maximum Forward Current



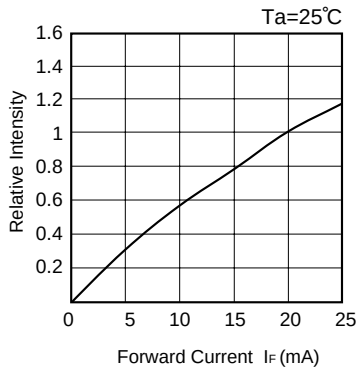
■ Pulse Duration vs.Maximum Tolerable Peak Current



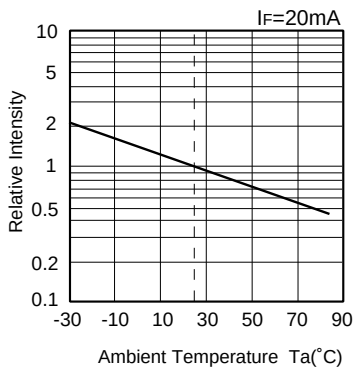
■ Forward Voltage vs. Forward Current



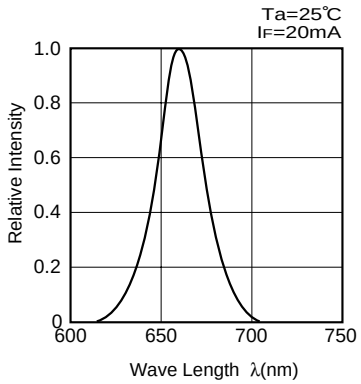
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



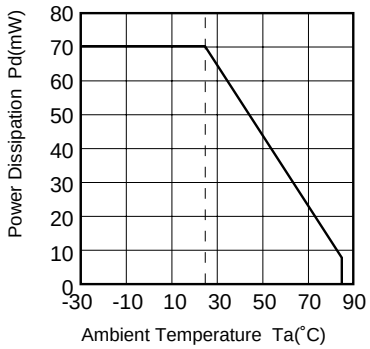
■ Spectral Distribution



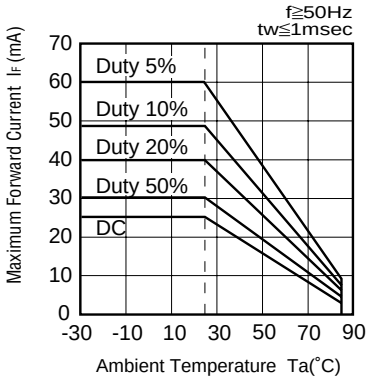
■ CHIP TYPE SURFACE MOUNT LED

AA1111C

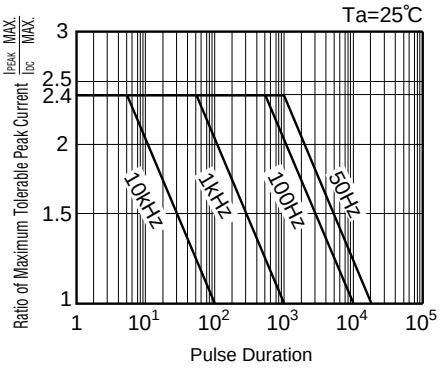
■ Power Dissipation vs. Ambient Temperature



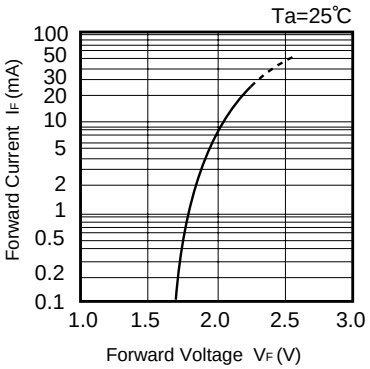
■ Ambient Temperature vs. Maximum Forward Current



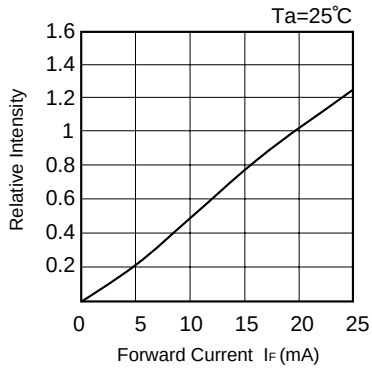
■ Pulse Duration vs.Maximum Tolerable Peak Current



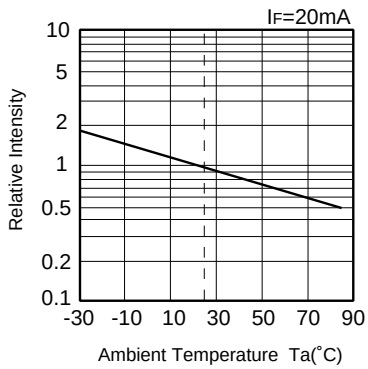
■ Forward Voltage vs. Forward Current



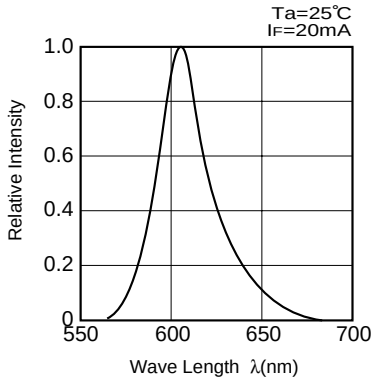
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



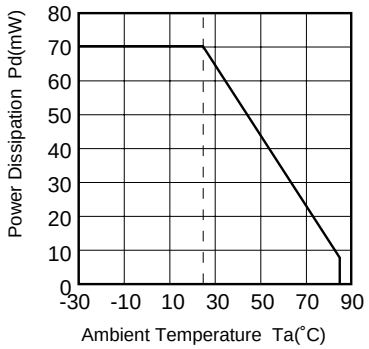
■ Spectral Distribution



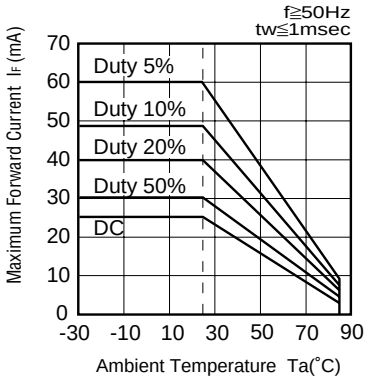
■ CHIP TYPE SURFACE MOUNT LED

AY1111C

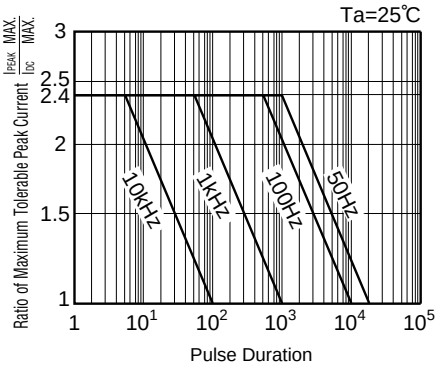
■ Power Dissipation vs. Ambient Temperature



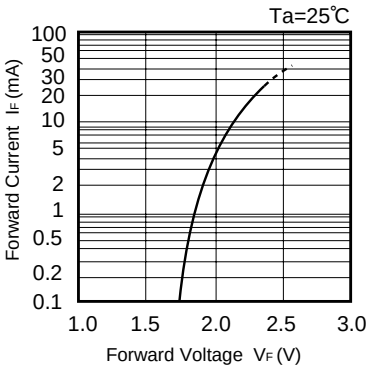
■ Ambient Temperature vs. Maximum Forward Current



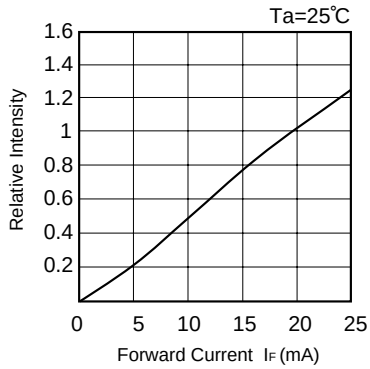
■ Pulse Duration vs.Maximum Tolerable Peak Current



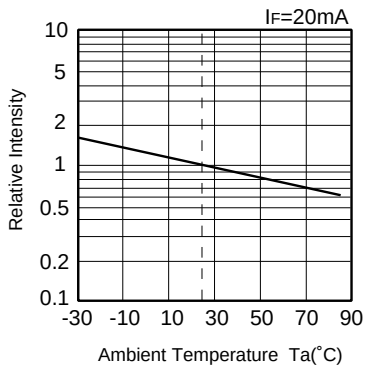
■ Forward Voltage vs. Forward Current



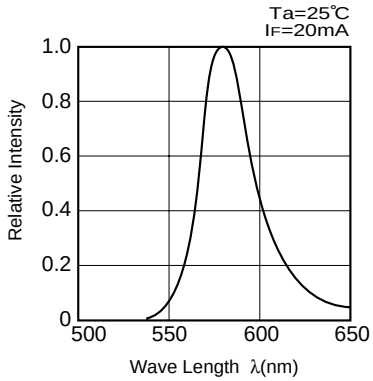
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



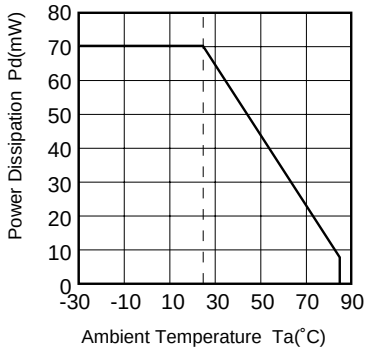
■ Spectral Distribution



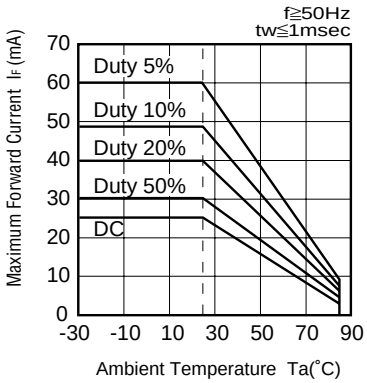
■ CHIP TYPE SURFACE MOUNT LED

PY1111C

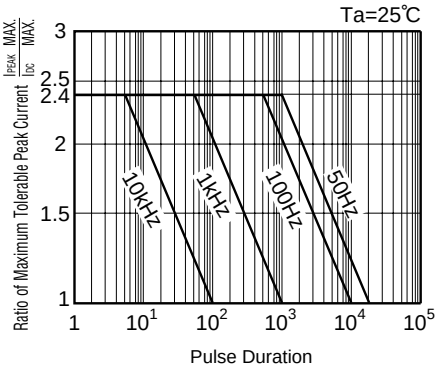
■ Power Dissipation vs. Ambient Temperature



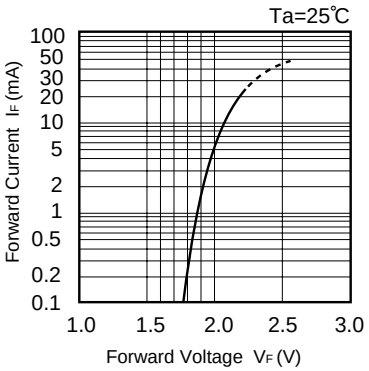
■ Ambient Temperature vs. Maximum Forward Current



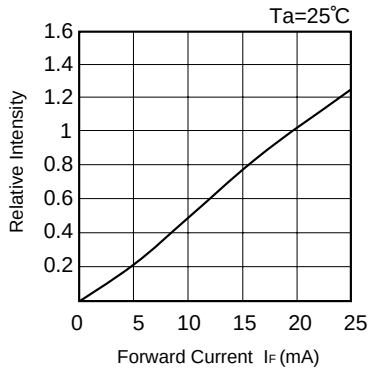
■ Pulse Duration vs.Maximum Tolerable Peak Current



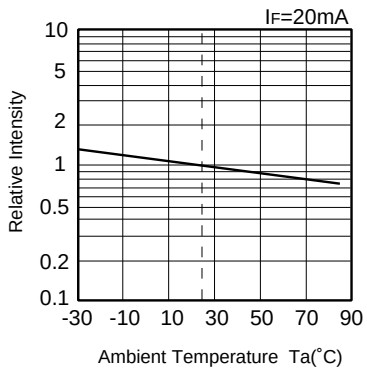
■ Forward Voltage vs. Forward Current



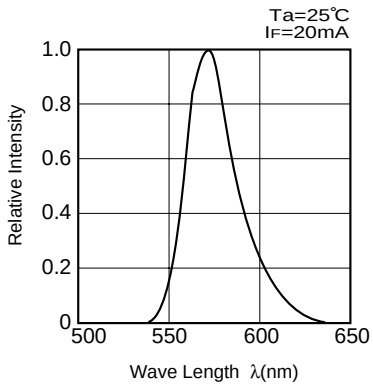
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



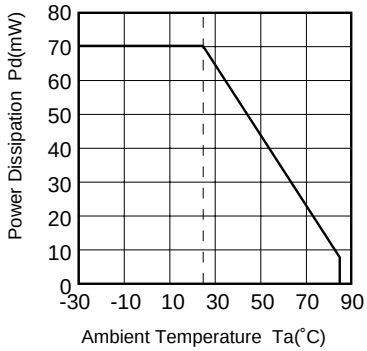
■ Spectral Distribution



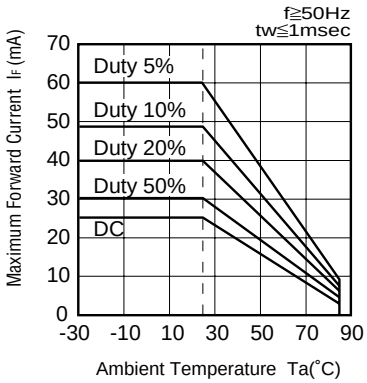
■ CHIP TYPE SURFACE MOUNT LED

PG1111C

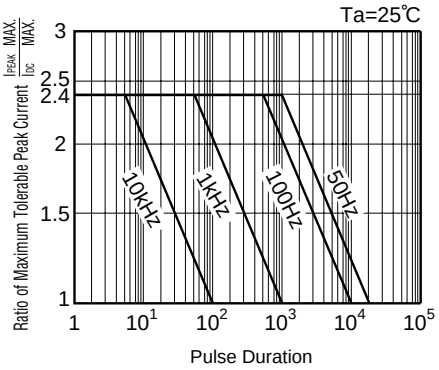
■ Power Dissipation vs. Ambient Temperature



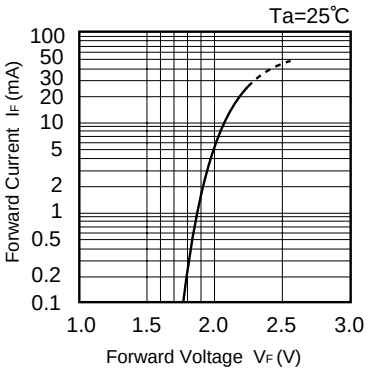
■ Ambient Temperature vs. Maximum Forward Current



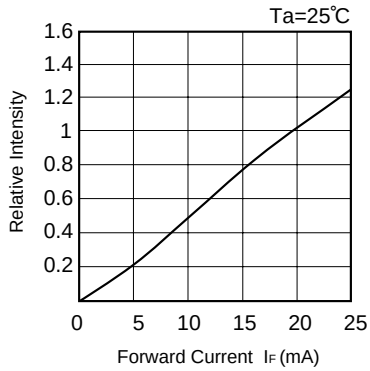
■ Pulse Duration vs.Maximum Tolerable Peak Current



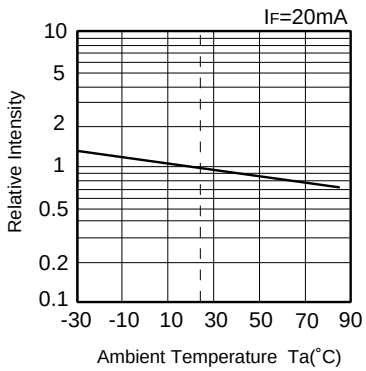
■ Forward Voltage vs. Forward Current



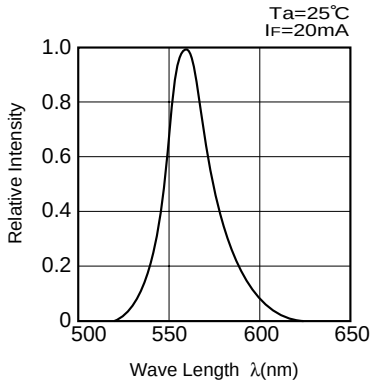
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



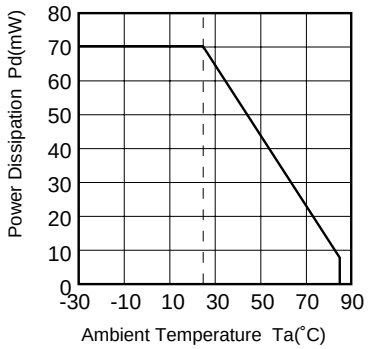
■ Spectral Distribution



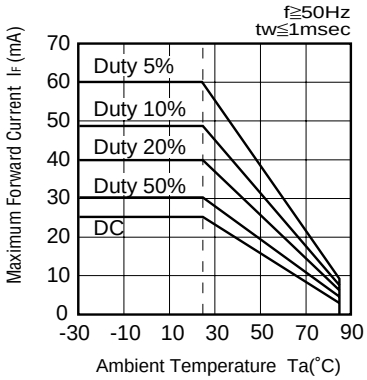
■ CHIP TYPE SURFACE MOUNT LED

BG1111C

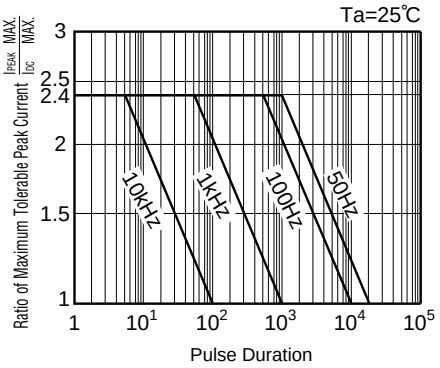
■ Power Dissipation vs. Ambient Temperature



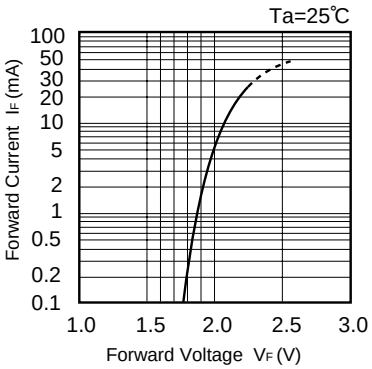
■ Ambient Temperature vs. Maximum Forward Current



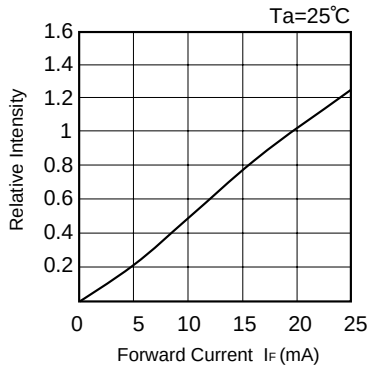
■ Pulse Duration vs.Maximum Tolerable Peak Current



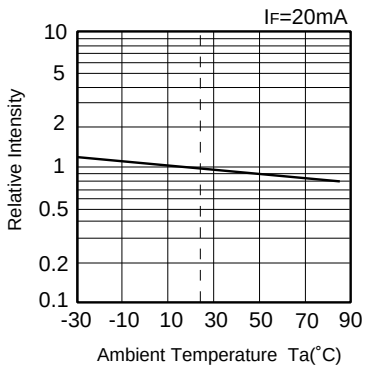
■ Forward Voltage vs. Forward Current



■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution