■ CHIP TYPE HI-SUPER BRIGHT SURFACE MOUNT LED

1111C Series

Flat LensType 1.6X0.8mm

■ Absolute Maximum Ratings

Ta = 25°C

		Blue	Blue Green	Green	Yellow	Orange	Red	Unit
		DB	DC	DG	FY	FA	FR	
Power Dissipation	Pb	76	76	76	81	81	81	mW
Forward Current	I_F	20	20	20	30	30	30	mA
Peak Forward Current	I_{FM}	48	48	48	100	100	100	mA
Reverse Voltage	V_R	5	5	5	5	5	5	V
Operating Temp.	Topr	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	°C
Storage Temp.	Tstg	-40~+100	-40~+100	-40~+100	-40~+100	-40~+100	-40~+100	°C
Derating *	ΔI_F	0.28	0.28	0.28	0.43	0.43	0.43	mA/°C

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

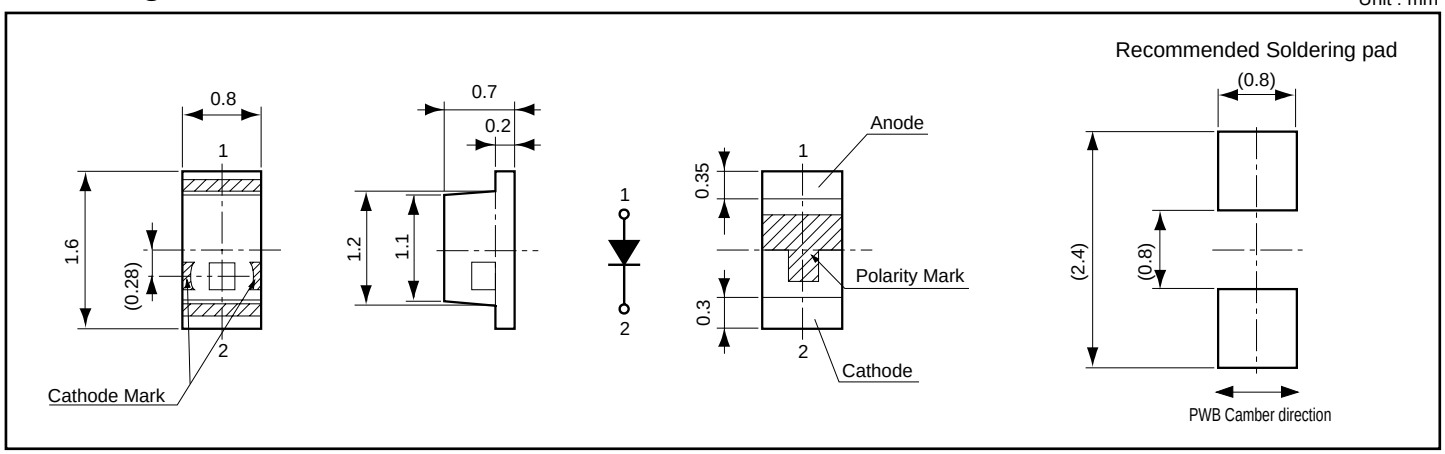
■ Electro-Optical Characteristics

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	λd TYP	$\Delta\lambda$ TYP	I_F	TYP	MAX	I_F	MAX	V_R
DB1111C	InGaN/SiC	Blue	Milky White	8.5	14	10	470	26	10	3.3	3.8	10	100	5
DC1111C	InGaN/SiC	Blue Green		24	34	10	505	30	10	3.3	3.8	10	100	5
DG1111C	InGaN/SiC	Green		24	40	10	525	30	10	3.2	3.8	10	100	5
FY1111C	AlGaInP	Yellow		25	65	20	590	15	20	1.9	2.4	20	100	5
FA1111C	AlGaInP	Orange		25	65	20	605	15	20	1.9	2.4	20	100	5
FR1111C	AlGaInP	Red		25	50	20	626	15	20	1.9	2.4	20	100	5
Units				mcd	mcd	mA	nm	nm	mA	V	V	mA	μA	V

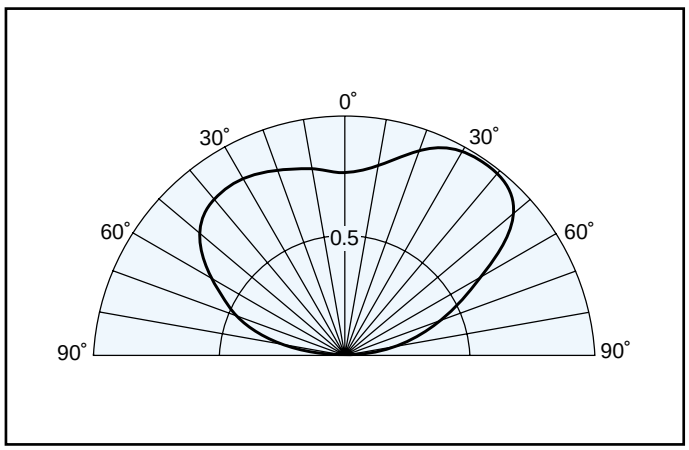
■ Package Dimensions

Unit : mm



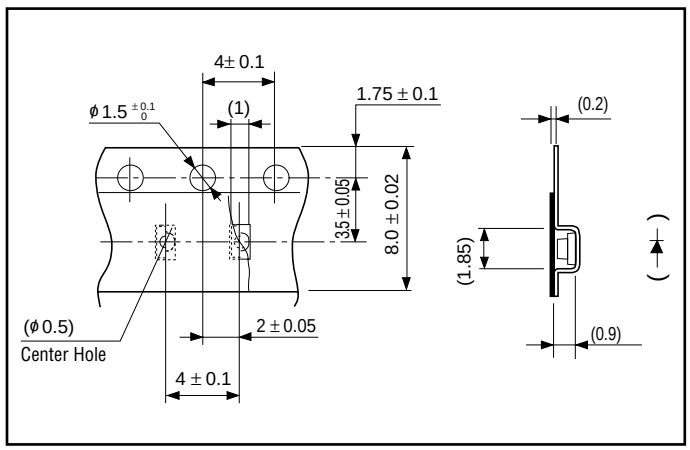
Tolerance : ±0.1mm

■ Spatial Distribution



■ Taping Specification

Unit : mm

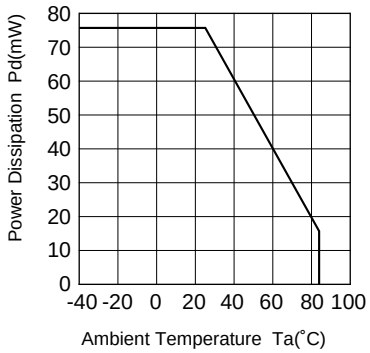


* Quantity 4,000 pcs/Reel

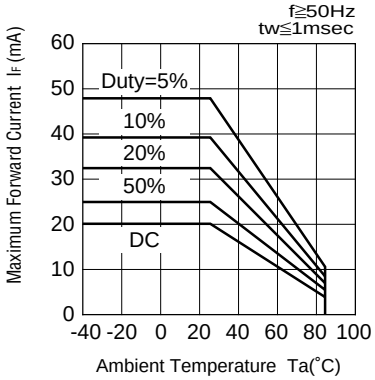
■ CHIP TYPE HI-SUPER BRIGHT SURFACE MOUNT LED

DB1111C

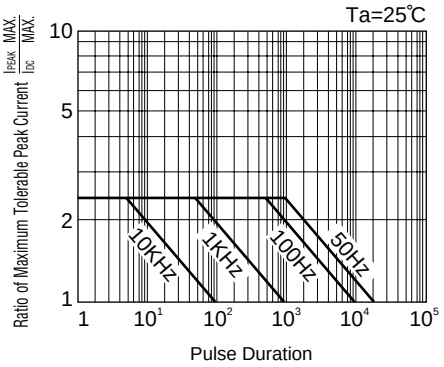
■ Power Dissipation vs. Ambient Temperature



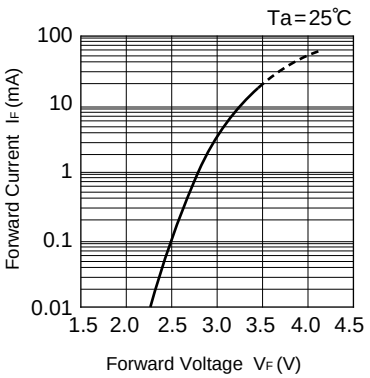
■ Ambient Temperature vs. Maximum Forward Current



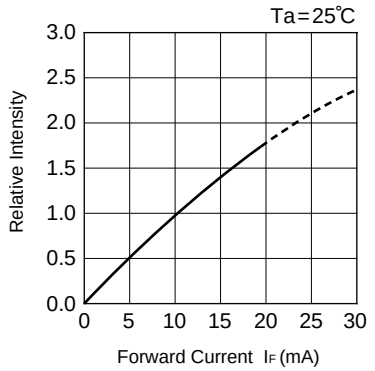
■ Pulse Duration vs.Maximum Tolerable Peak Current



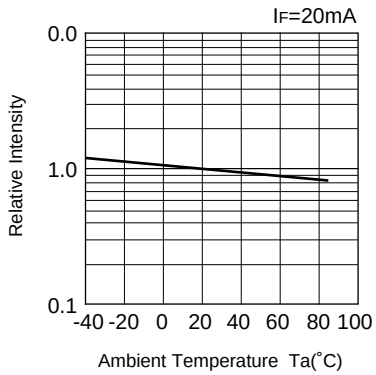
■ Forward Voltage vs. Forward Current



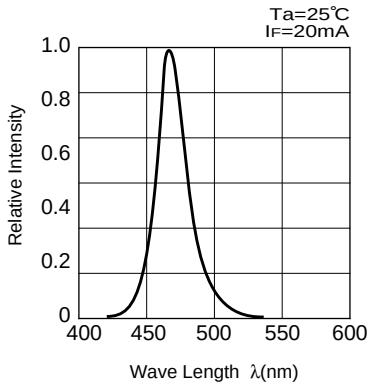
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



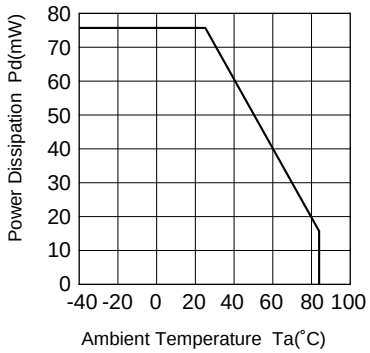
■ Spectral Distribution



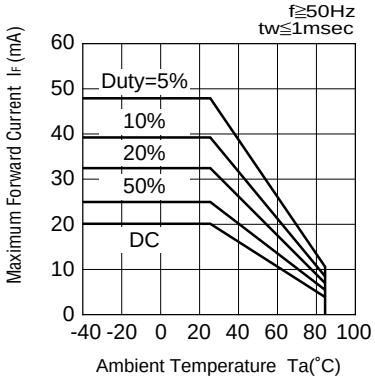
■ CHIP TYPE HI-SUPER BRIGHT SURFACE MOUNT LED

DC1111C

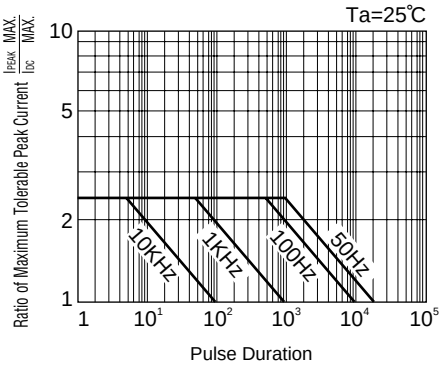
■ Power Dissipation vs. Ambient Temperature



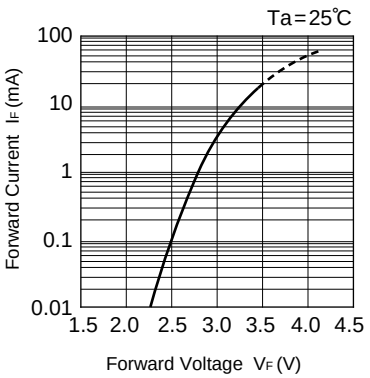
■ Ambient Temperature vs. Maximum Forward Current



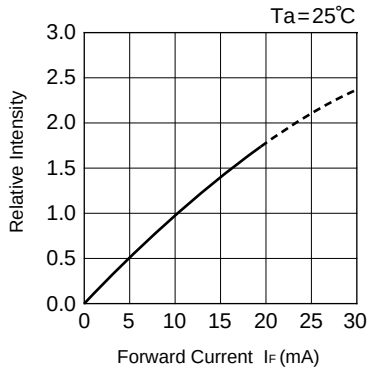
■ Pulse Duration vs.Maximum Tolerable Peak Current



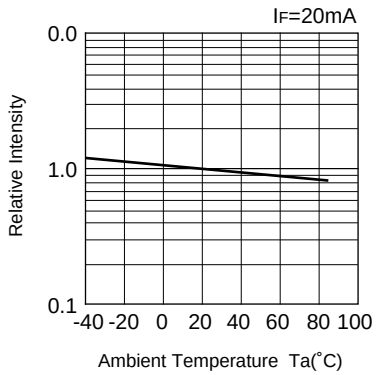
■ Forward Voltage vs. Forward Current



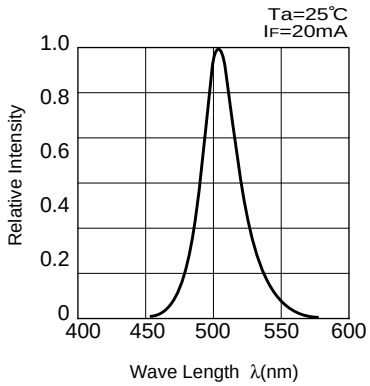
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



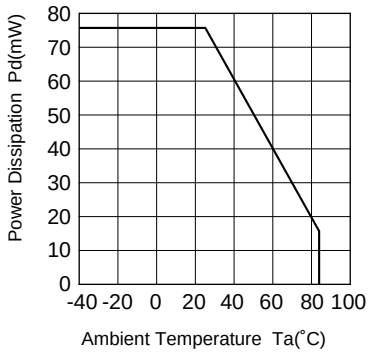
■ Spectral Distribution



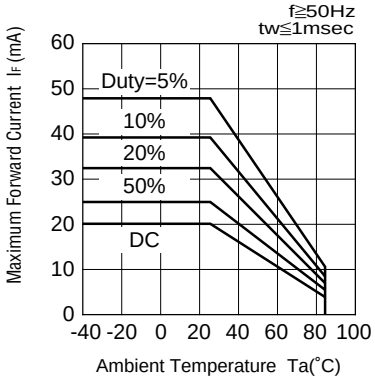
■ CHIP TYPE HI-SUPER BRIGHT SURFACE MOUNT LED

DG1111C

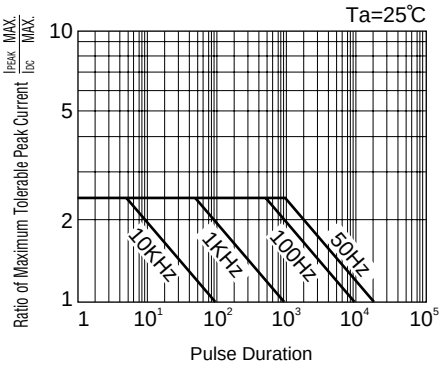
■ Power Dissipation vs. Ambient Temperature



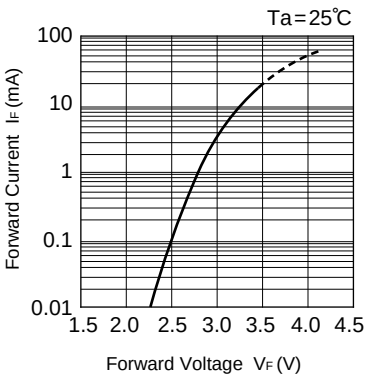
■ Ambient Temperature vs. Maximum Forward Current



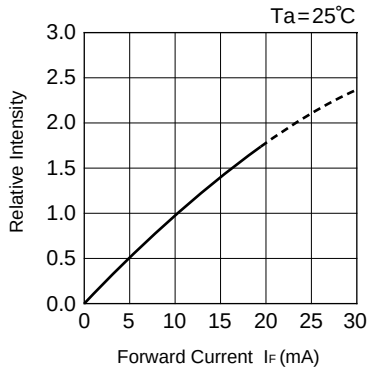
■ Pulse Duration vs.Maximum Tolerable Peak Current



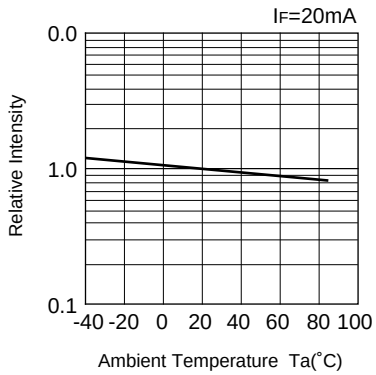
■ Forward Voltage vs. Forward Current



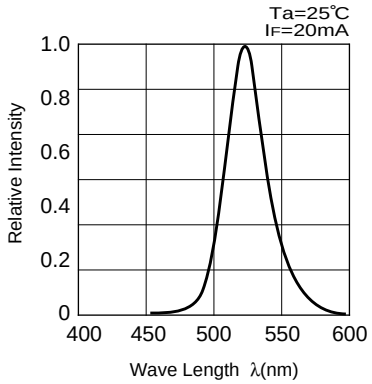
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



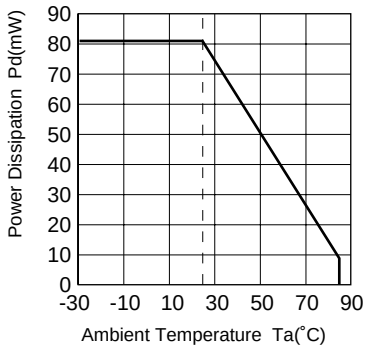
■ Spectral Distribution



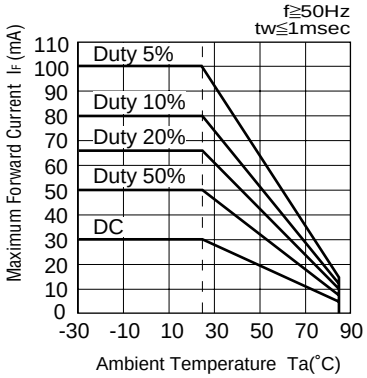
■ CHIP TYPE HI-SUPER BRIGHT SURFACE MOUNT LED

FY1111C

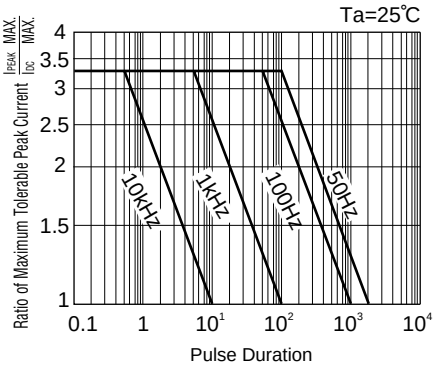
■ Power Dissipation vs. Ambient Temperature



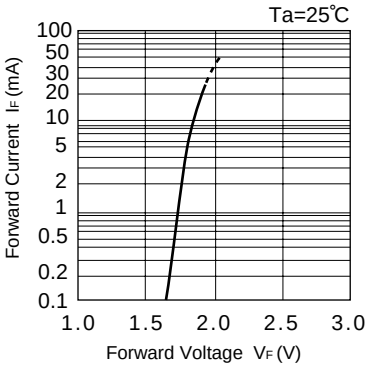
■ Ambient Temperature vs. Maximum Forward Current



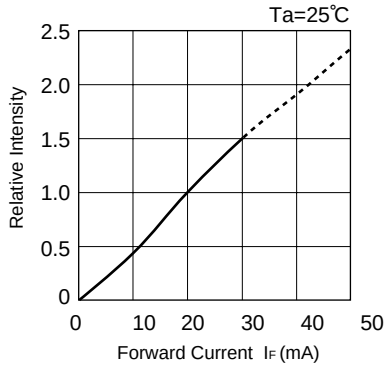
■ Pulse Duration vs.Maximum Tolerable Peak Current



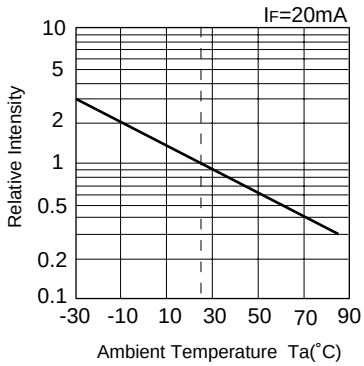
■ Forward Voltage vs. Forward Current



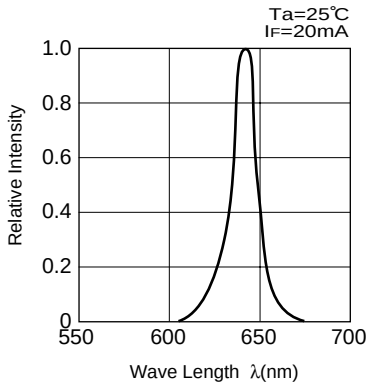
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



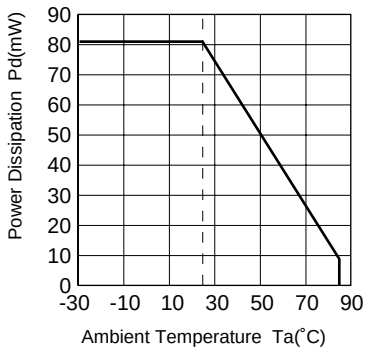
■ Spectral Distribution



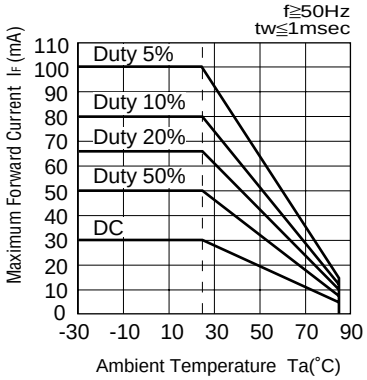
■ CHIP TYPE HI-SUPER BRIGHT SURFACE MOUNT LED

FA1111C

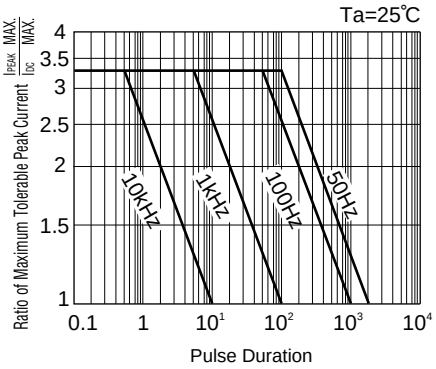
■ Power Dissipation vs. Ambient Temperature



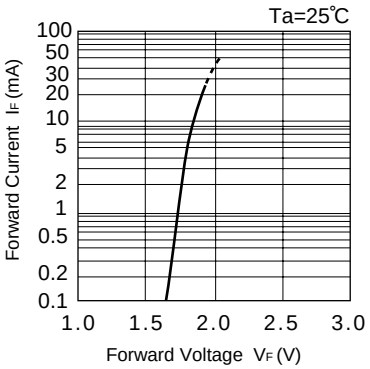
■ Ambient Temperature vs. Maximum Forward Current



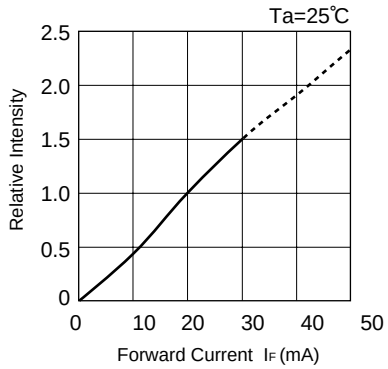
■ Pulse Duration vs.Maximum Tolerable Peak Current



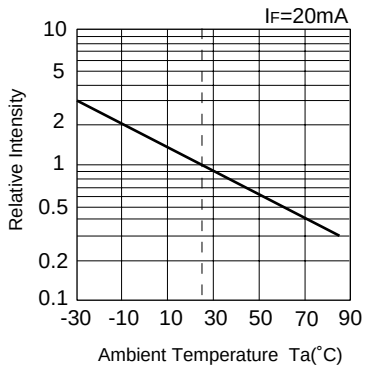
■ Forward Voltage vs. Forward Current



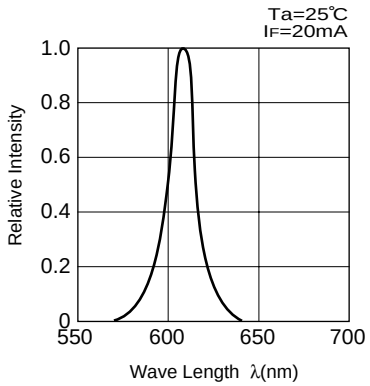
■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



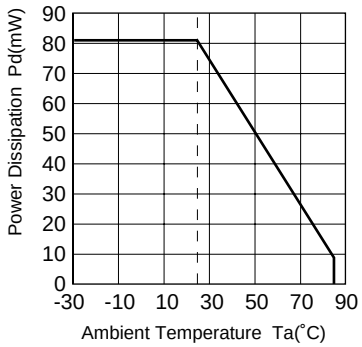
■ Spectral Distribution



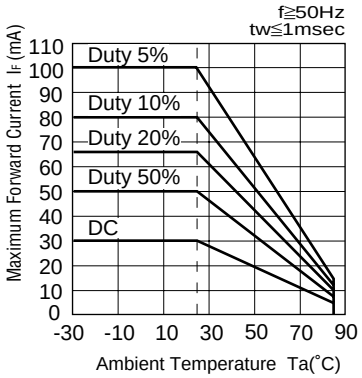
■ CHIP TYPE HI-SUPER BRIGHT SURFACE MOUNT LED

FR1111C

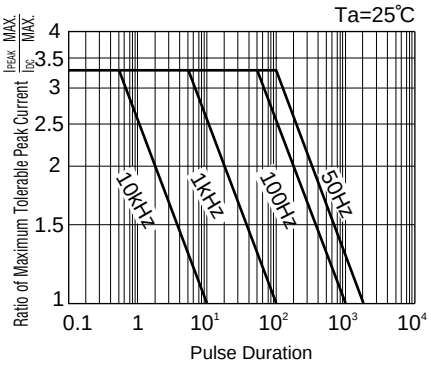
■ Power Dissipation vs. Ambient Temperature



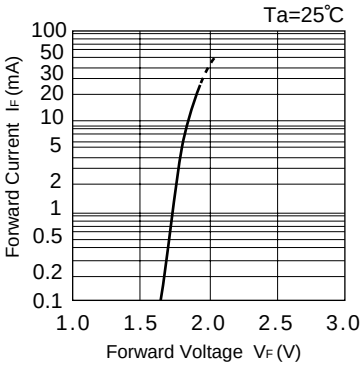
■ Ambient Temperature vs. Maximum Forward Current



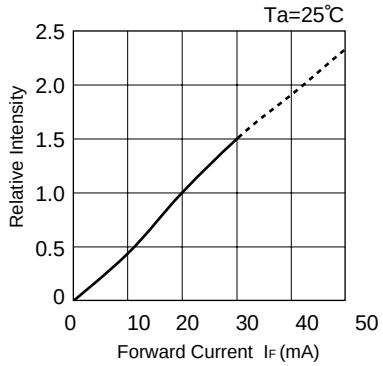
■ Pulse Duration vs.Maximum Tolerable Peak Current



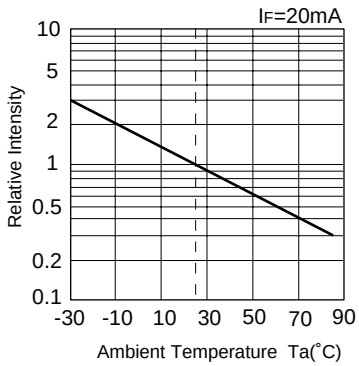
■ Forward Voltage vs. Forward Current



■ Forward Current vs. Relative Intensity



■ Ambient Temperature vs. Relative Intensity



■ Spectral Distribution