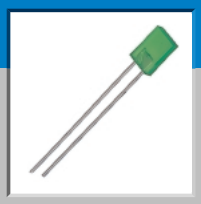
■ SUPER BRIGHT LED

5351K Series

2 x 5mm Rectangular Type



■ Absolute Maximum Ratings

Ta = 25°C

		Red			Orange	Yellow		Green	Pure Green	Unit
		BR	PR	VR	AA	AY	PY	PG	BG	
Power Dissipation	Pb	100	75	75	125	125	125	125	125	mW
Forward Current	IF	50	30	30	50	50	50	50	50	mA
Peak Forward Current	IFM	300	100	100	100	100	100	100	100	mA
Reverse Voltage	VR	4	4	4	4	4	4	4	4	V
Operating Temp.	Topr	-30~+85	-30~+85	-30~+85	-30~+85	-30~+85	-30~+85	-30~+85	-30~+85	°C
Storage Temp.	Tstg	-30~+100	-30~+100	-30~+100	-30~+100	-30~+100	-30~+100	-30~+100	-30~+100	°C
Derating *	ΔIF	0.67	0.33	0.33	0.67	0.67	0.67	0.67	0.67	mA/°C

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

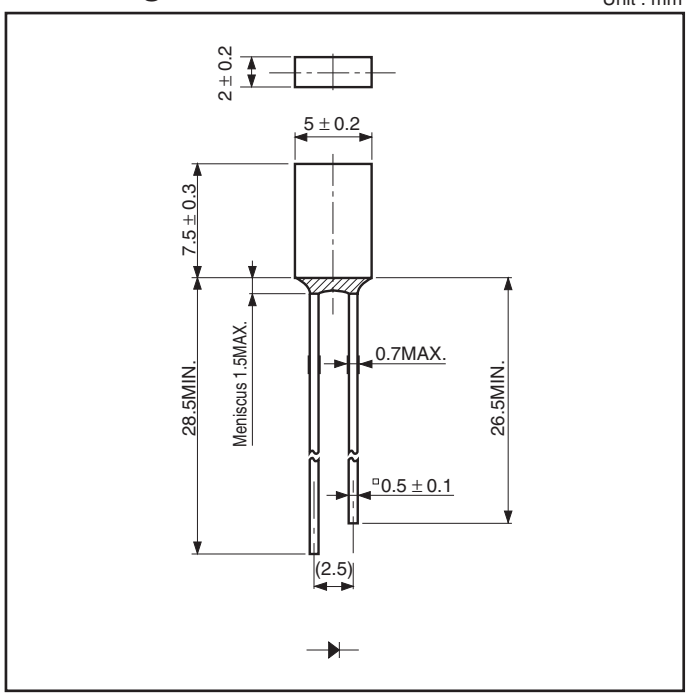
■ Electro-Optical Characteristics

Ta = 25°C

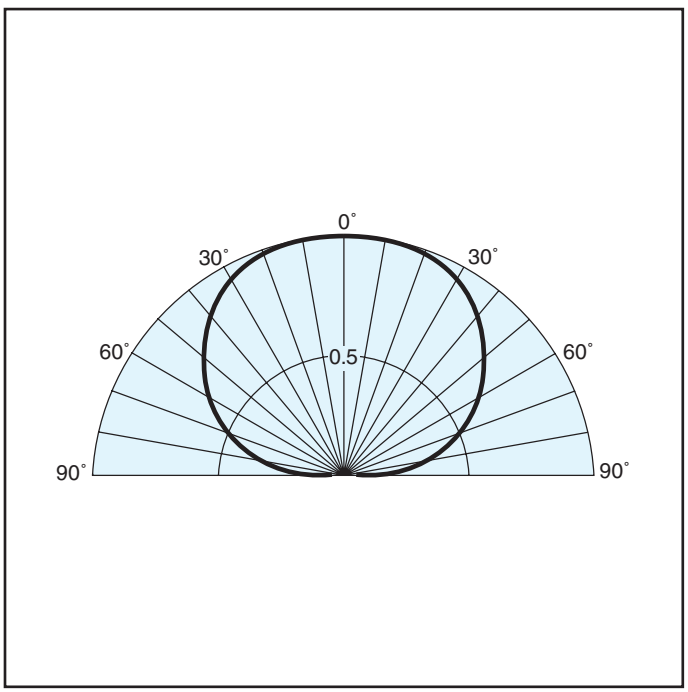
Part No.	Chip		Lens		Luminous Intensity Iv			Wavelength λp	Δλ		Forward Voltage VF			Reverse Current IR		Capacitance
	Material	Emitted Color			MIN	TYP	IF	TYP	TYP	IF	TYP	MAX	IF	MAX	VR	Co
BR5351K	GaAlAs	Red	Red	Surface Diffused	1.5	3	20	660	30	20	1.7	2.0	20	100	4	50
PR5351K	GaP				0.3	0.5	10	700	100	10	2.1	2.5	10	100	4	70
VR5351K	GaAsP				1.2	2.4	20	630	30	20	2.0	2.5	20	100	4	35
AA5351K	GaAsP	Orange	Orange		1.2	2.4	20	605	30	20	2.2	2.5	20	100	4	50
AY5351K	GaAsP	Yellow	Yellow		1.2	2.4	20	580	30	20	2.2	2.5	20	100	4	40
PY5351K	GaP				2	4	20	570	30	20	2.1	2.5	20	100	4	40
PG5351K	GaP	Green	Green		1.5	3	20	560	30	20	2.1	2.5	20	100	4	40
BG5351K	GaP	Pure Green			0.5	1	20	555	30	20	2.1	2.5	20	100	4	50
Units					mcd	mcd	mA	nm	nm	mA	V	V	mA	μA	V	pF

■ Package Dimensions

Unit : mm



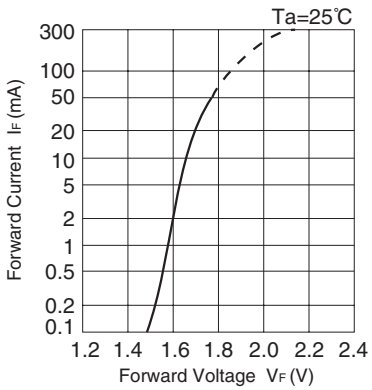
■ Spatial Distribution



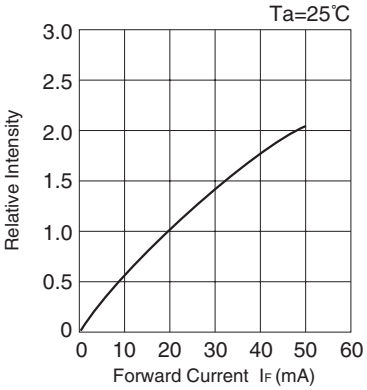
■ SUPER BRIGHT LED

BR5351K

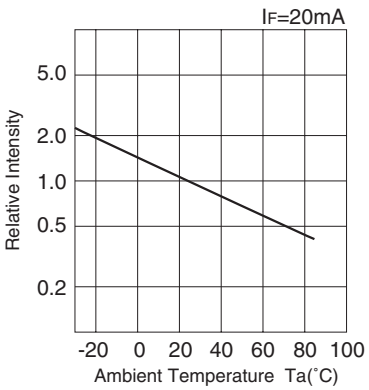
■ Forward Voltage vs. Forward Current



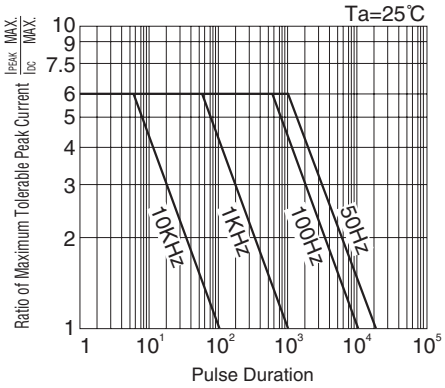
■ Forward Current vs. Relative Intensity



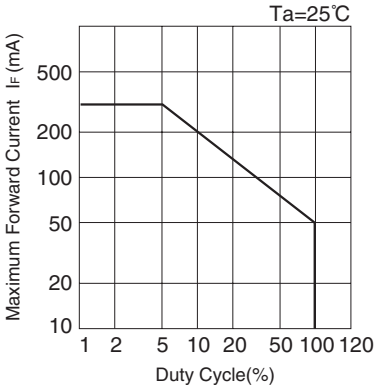
■ Ambient Temperature vs. Relative Intensity



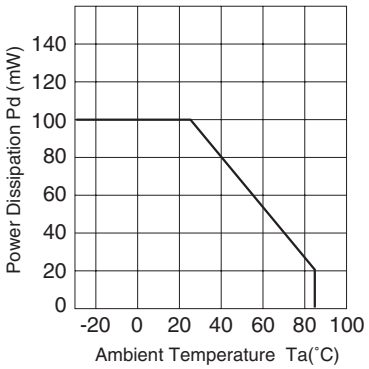
■ Pulse Duration vs.Maximum Tolerable Peak Current



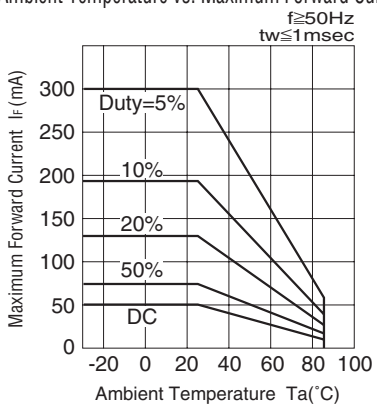
■ Duty Cycle vs. Maximum Forward Current



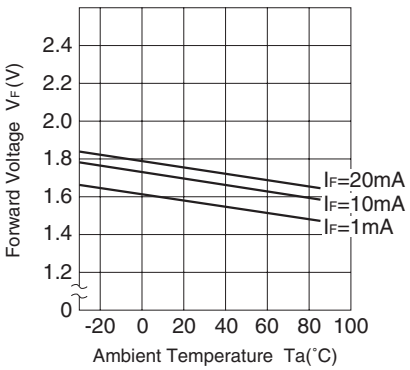
■ Power Dissipation vs. Ambient Temperature



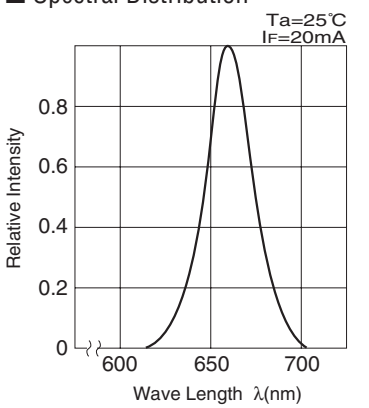
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



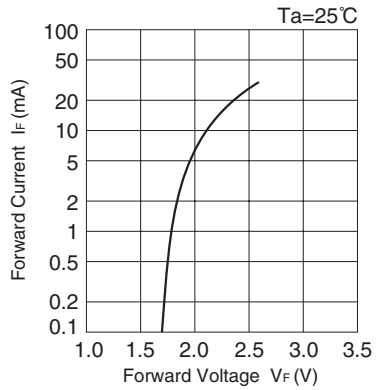
■ Spectral Distribution



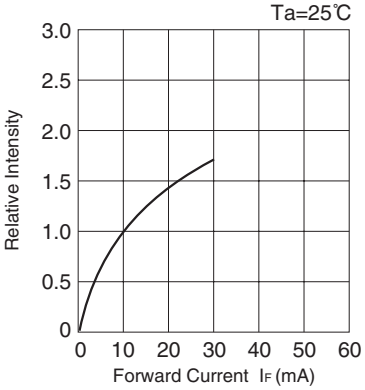
■ SUPER BRIGHT LED

PR5351K

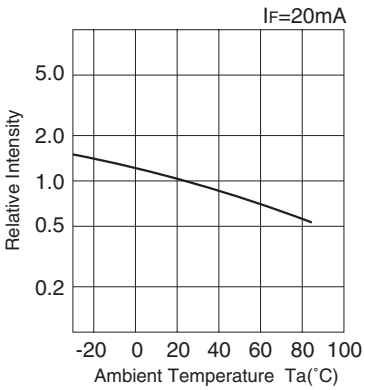
■ Forward Voltage vs. Forward Current



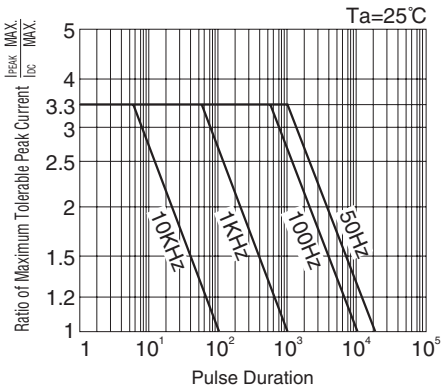
■ Forward Current vs. Relative Intensity



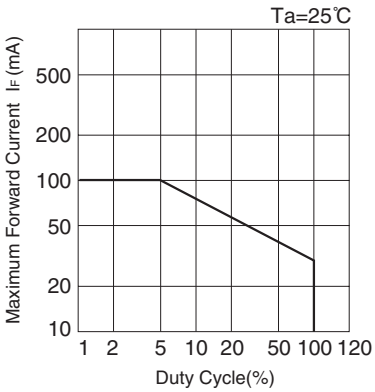
■ Ambient Temperature vs. Relative Intensity



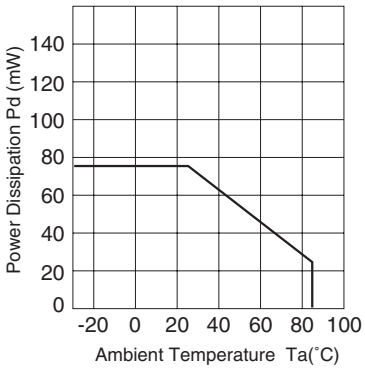
■ Pulse Duration vs.Maximum Tolerable Peak Current



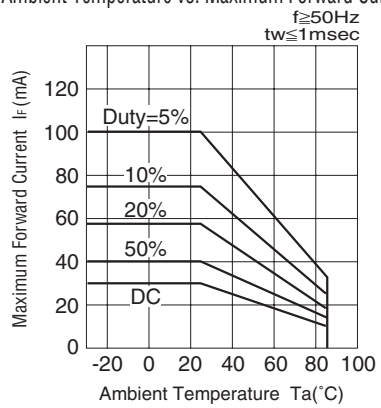
■ Duty Cycle vs. Maximum Forward Current



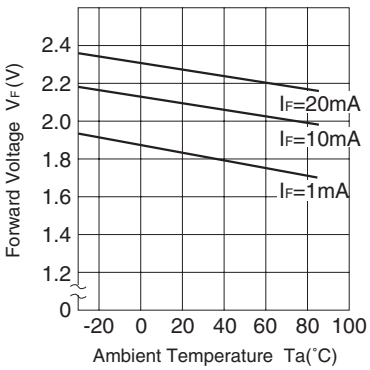
■ Power Dissipation vs. Ambient Temperature



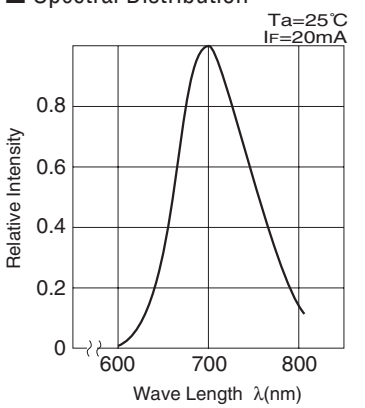
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



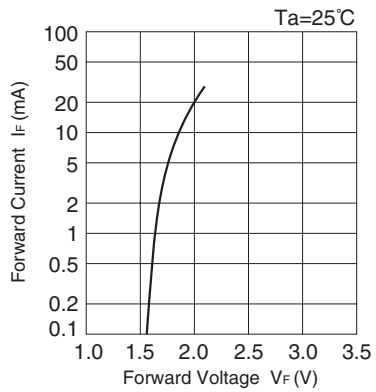
■ Spectral Distribution



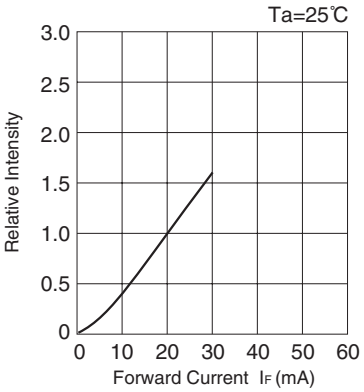
■ SUPER BRIGHT LED

VR5351K

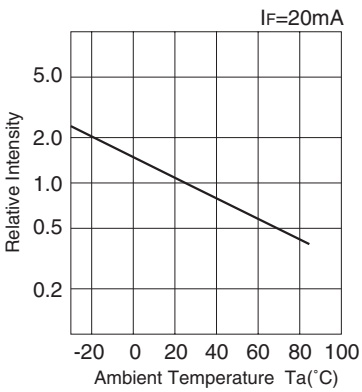
■ Forward Voltage vs. Forward Current



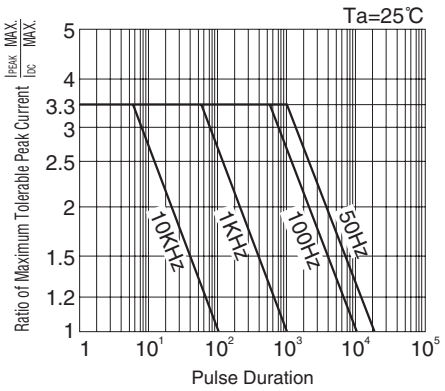
■ Forward Current vs. Relative Intensity



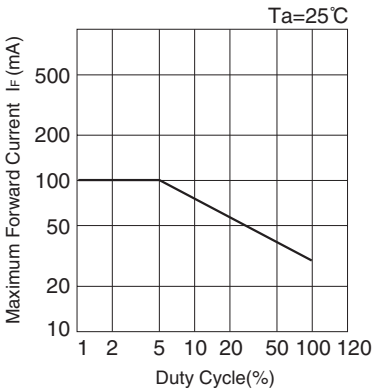
■ Ambient Temperature vs. Relative Intensity



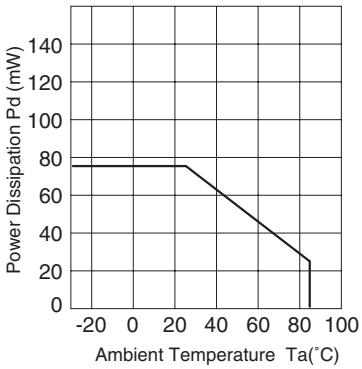
■ Pulse Duration vs.Maximum Tolerable Peak Current



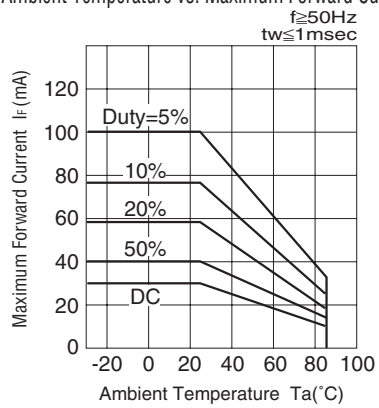
■ Duty Cycle vs. Maximum Forward Current



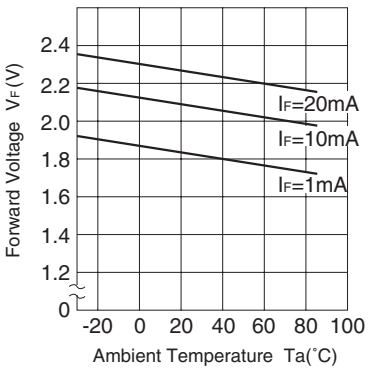
■ Power Dissipation vs. Ambient Temperature



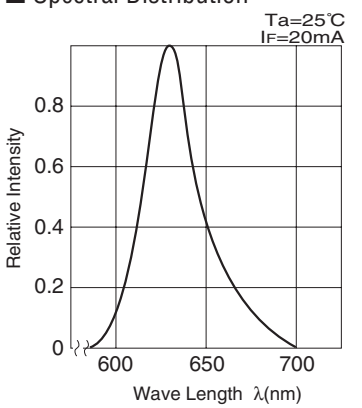
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



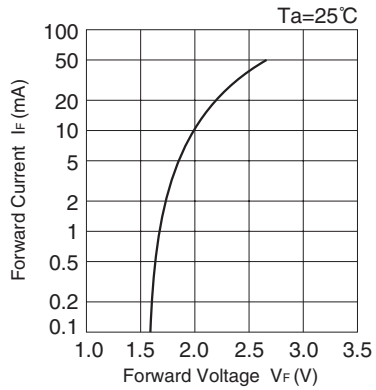
■ Spectral Distribution



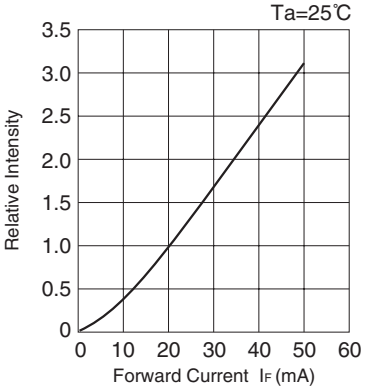
■ SUPER BRIGHT LED

AA5351K

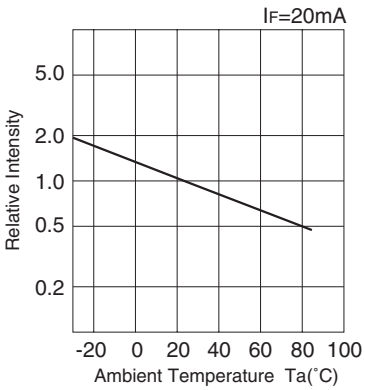
■ Forward Voltage vs. Forward Current



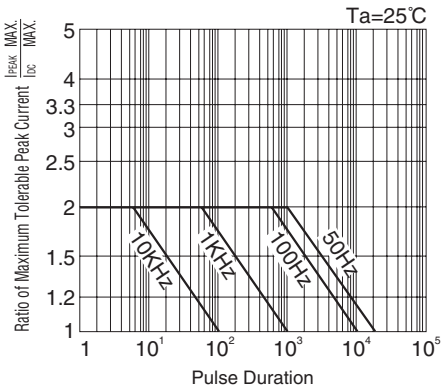
■ Forward Current vs. Relative Intensity



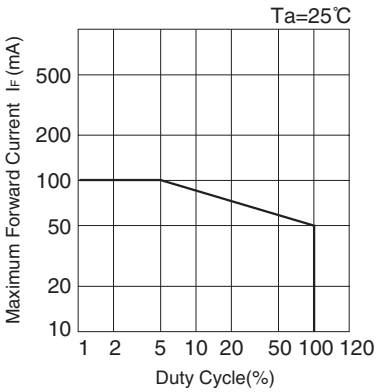
■ Ambient Temperature vs. Relative Intensity



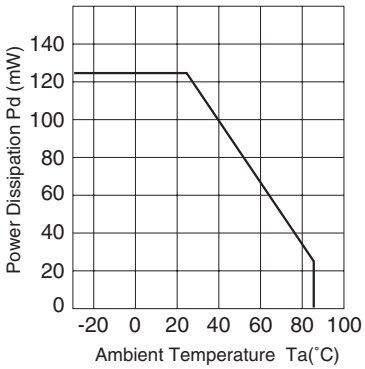
■ Pulse Duration vs.Maximum Tolerable Peak Current



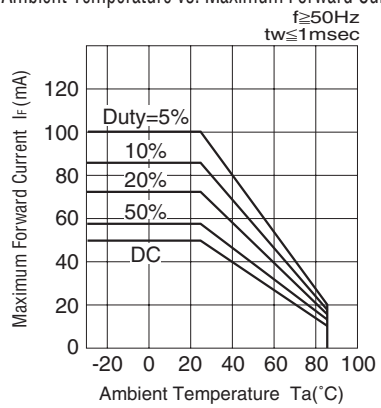
■ Duty Cycle vs. Maximum Forward Current



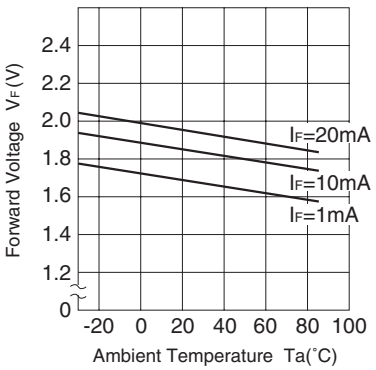
■ Power Dissipation vs. Ambient Temperature



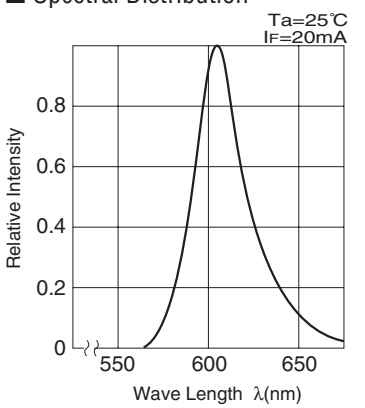
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



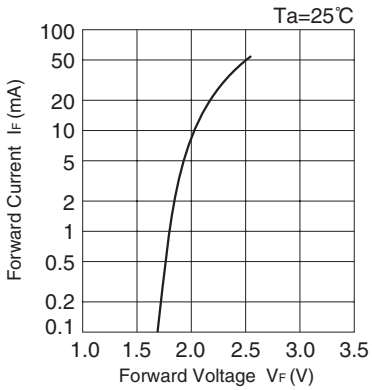
■ Spectral Distribution



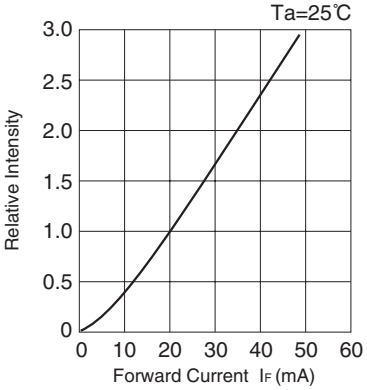
■ SUPER BRIGHT LED

AY5351K

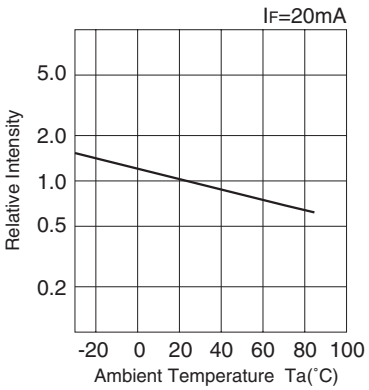
■ Forward Voltage vs. Forward Current



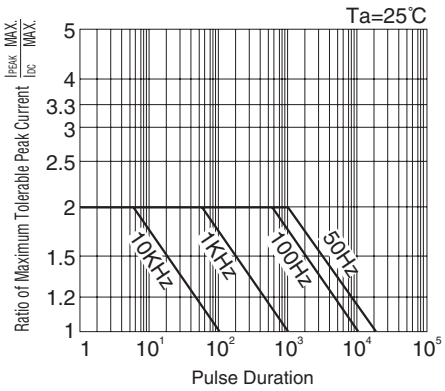
■ Forward Current vs. Relative Intensity



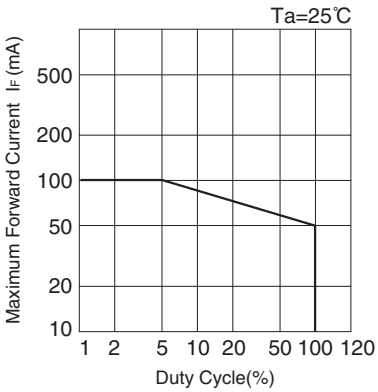
■ Ambient Temperature vs. Relative Intensity



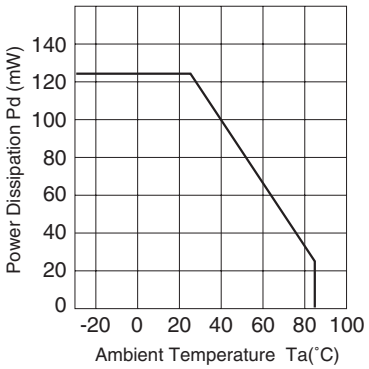
■ Pulse Duration vs.Maximum Tolerable Peak Current



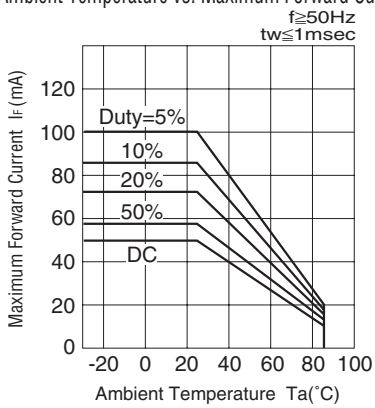
■ Duty Cycle vs. Maximum Forward Current



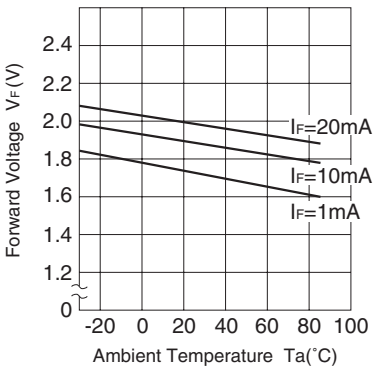
■ Power Dissipation vs. Ambient Temperature



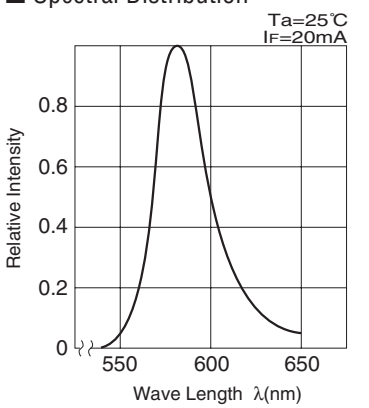
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



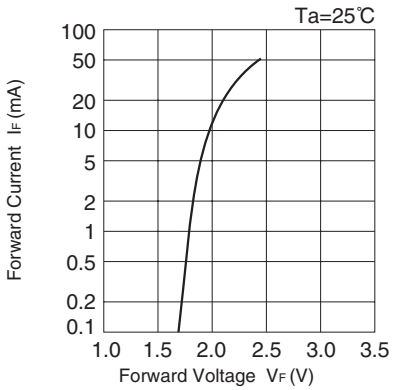
■ Spectral Distribution



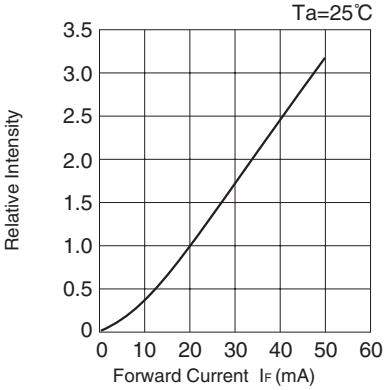
■ SUPER BRIGHT LED

PY5351K

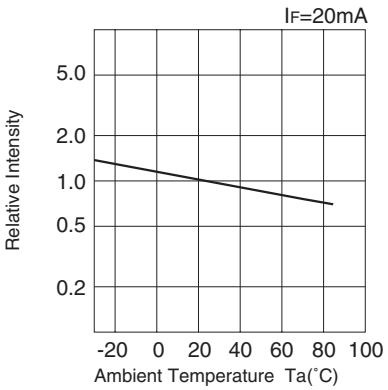
■ Forward Voltage vs. Forward Current



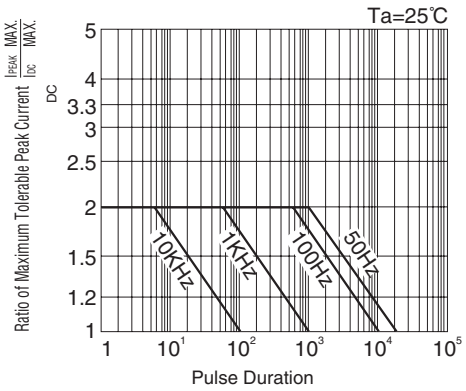
■ Forward Current vs. Relative Intensity



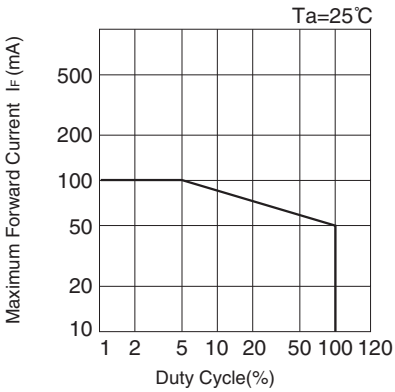
■ Ambient Temperature vs. Relative Intensity



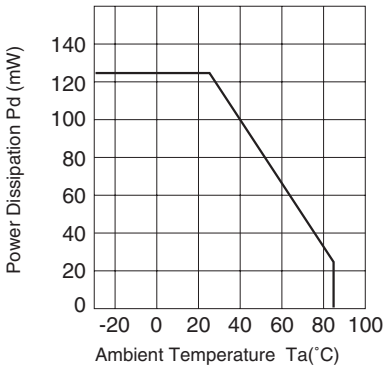
■ Pulse Duration vs.Maximum Tolerable Peak Current



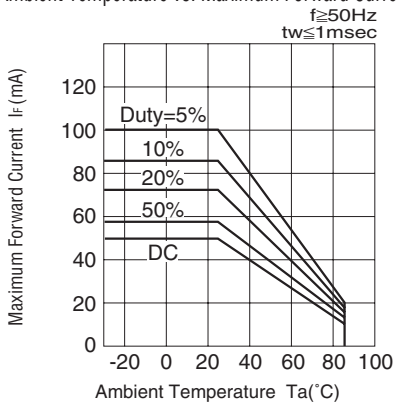
■ Duty Cycle vs. Maximum Forward Current



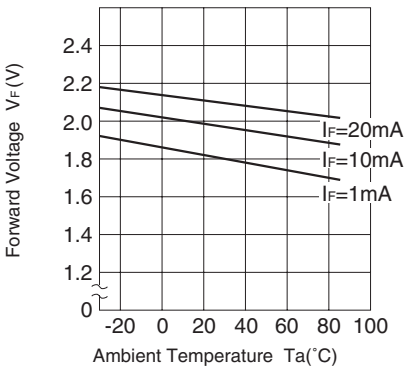
■ Power Dissipation vs. Ambient Temperature



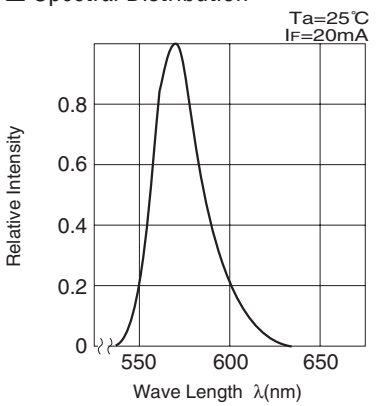
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



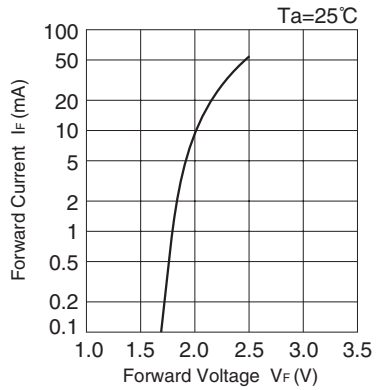
■ Spectral Distribution



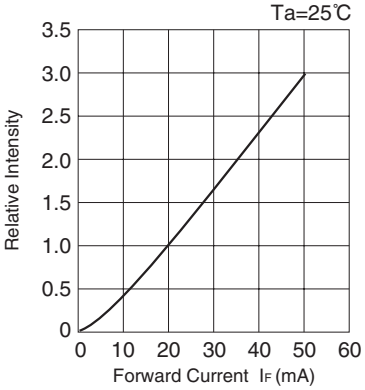
■ SUPER BRIGHT LED

PG5351K

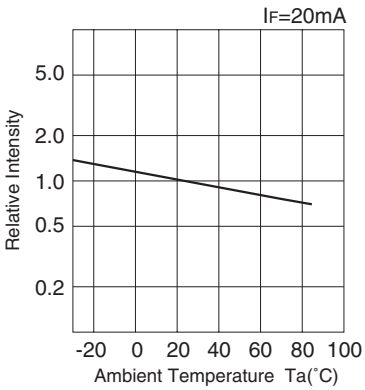
■ Forward Voltage vs. Forward Current



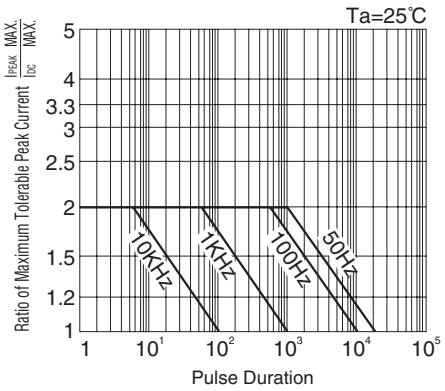
■ Forward Current vs. Relative Intensity



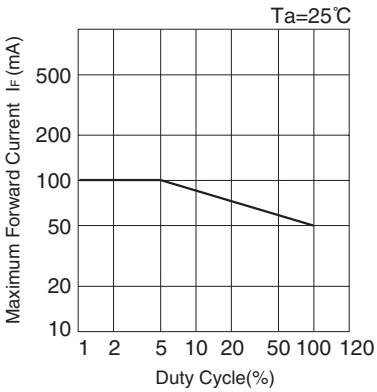
■ Ambient Temperature vs. Relative Intensity



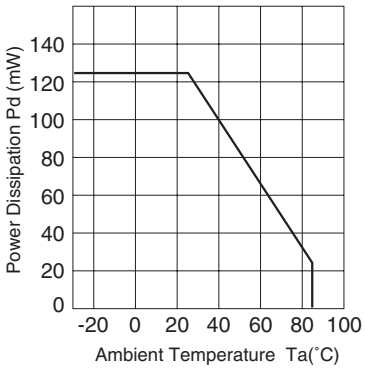
■ Pulse Duration vs.Maximum Tolerable Peak Current



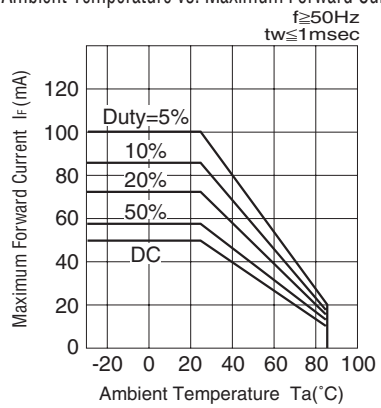
■ Duty Cycle vs. Maximum Forward Current



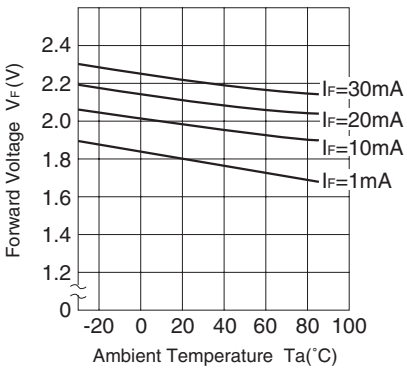
■ Power Dissipation vs. Ambient Temperature



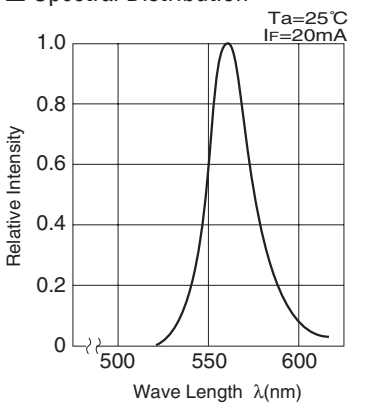
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



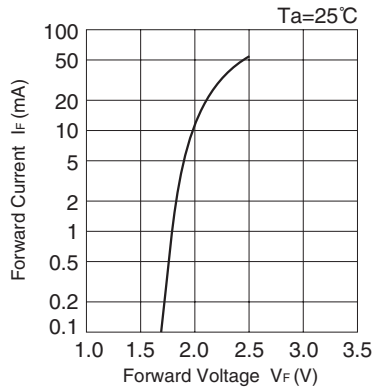
■ Spectral Distribution



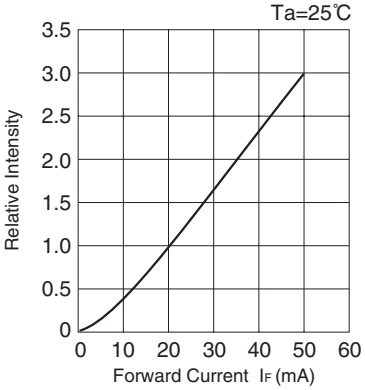
■ SUPER BRIGHT LED

BG5351K

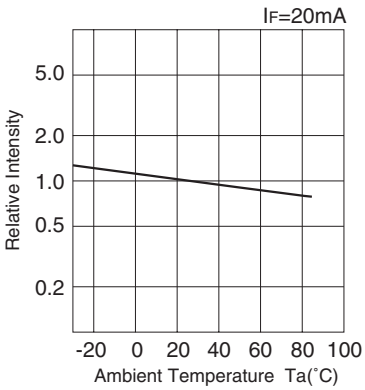
■ Forward Voltage vs. Forward Current



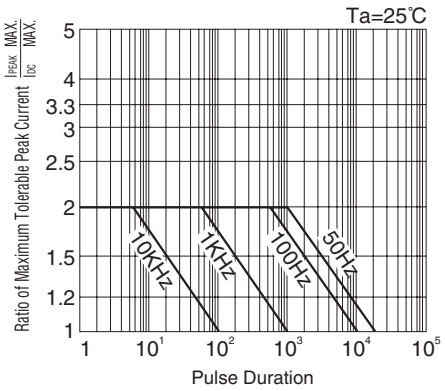
■ Forward Current vs. Relative Intensity



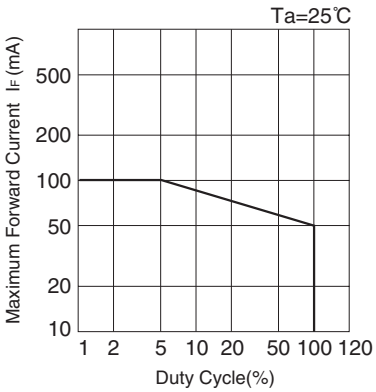
■ Ambient Temperature vs. Relative Intensity



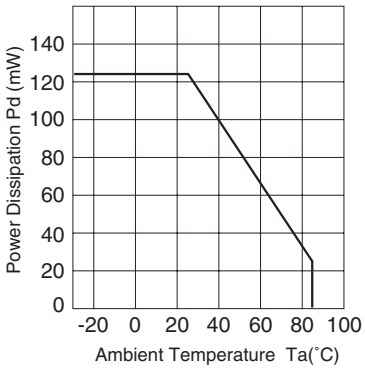
■ Pulse Duration vs.Maximum Tolerable Peak Current



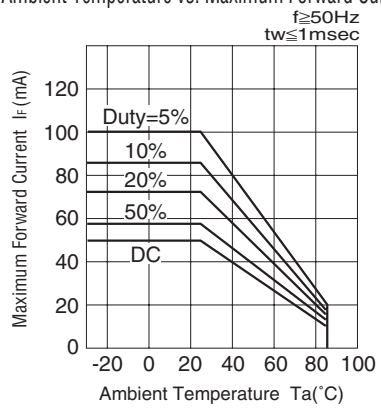
■ Duty Cycle vs. Maximum Forward Current



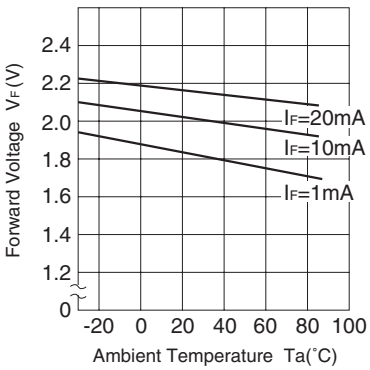
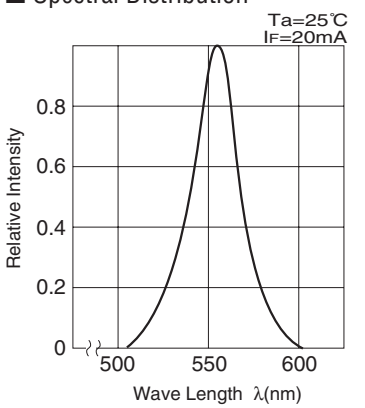
■ Power Dissipation vs. Ambient Temperature



■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



■ Spectral Distribution