



■ LED LAMP

3822K Series



2 x 3.2mm Rectangular Type

■ Absolute Maximum Ratings

Ta = 25°C

		Pure Green	Green	Yellow		Orange	Red			Unit
		BG	PG	PY	AY	AA	VR	BR	PR	Unit
Power Dissipation	Pd	125	125	125	125	125	75	100	75	mW
Forward Current	If	50	50	50	50	50	30	50	30	mA
Peak Forward Current	Ifm	100	100	100	100	100	100	300	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	0.67	0.67	0.67	0.67	0.40	0.67	0.40	mA/°C

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

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

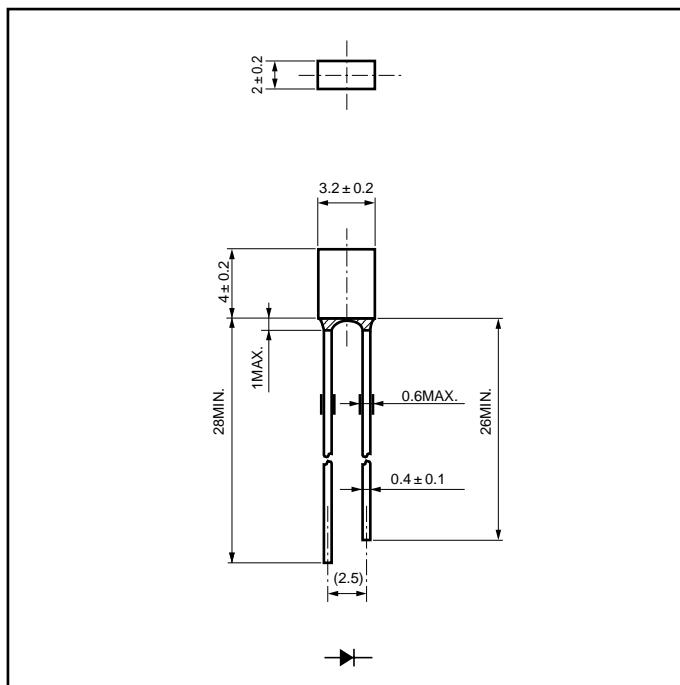
■ Electro-Optical Characteristics

Ta = 25°C

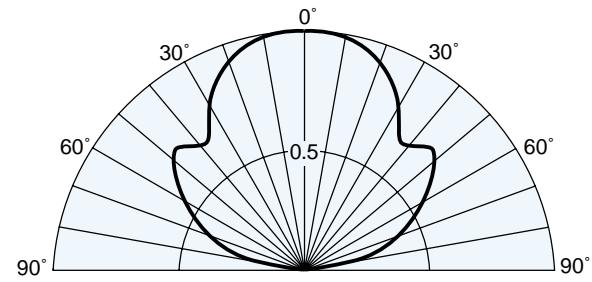
Part No.	Chip		Lens	Luminous Intensity			Wavelength			Forward Voltage			Reverse Current		
	Material	Emitted Color		Iv			λd TYP	λp TYP	Δλ TYP	If TYP	Vf TYP	Max If	Ir Max	Ir Vr	
				MIN	TYP	If									
BG3822K	GaP	Pure Green	Clear	1	2	20	558	555	30	20	2.1	2.5	20	100 4	
PG3822K	GaP	Green		2	4	20	567	560	30	20	2.1	2.5	20	100 4	
PY3822K	GaP	Yellow		2	4	20	572	570	30	20	2.1	2.5	20	100 4	
AY3822K	GaAsP	Yellow		2	4	20	590	580	30	20	2.2	2.5	20	100 4	
AA3822K	GaAsP	Orange		2	4	20	606	605	30	20	2.2	2.5	20	100 4	
VR3822K	GaAsP	Orange		2	4	20	624	630	30	20	2.0	2.5	20	100 4	
BR3822K	GaAlAs	Red		2	4	20	647	660	30	20	1.7	2.0	20	100 4	
PR3822K	GaP	Red		0.4	0.8	10	630	700	100	10	2.1	2.5	10	100 4	
Units					mcd	mcd	mA	nm	nm	nm	mA	V	V	mA μA V	

■ Package Dimensions

Unit : mm



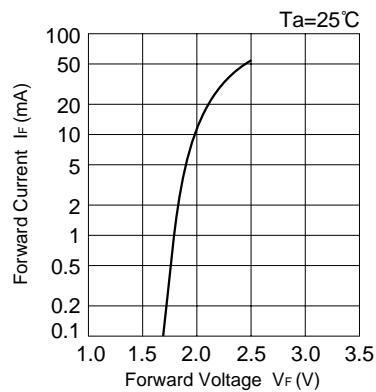
■ Spatial Distribution



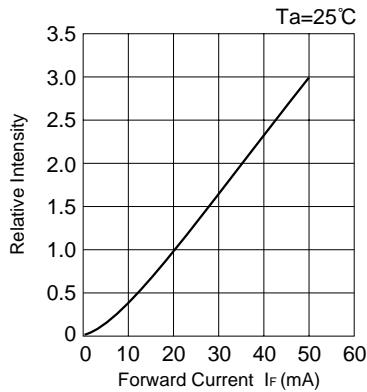


■ LED LAMP BG3822K

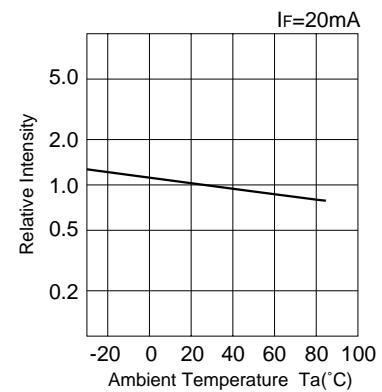
■ Forward Voltage vs. Forward Current



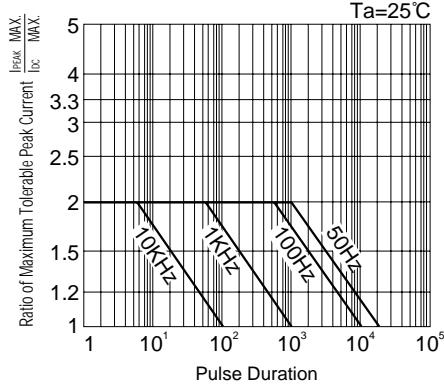
■ Forward Current vs. Relative Intensity



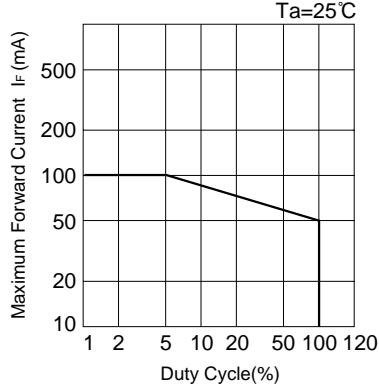
■ Ambient Temperature vs. Relative Intensity



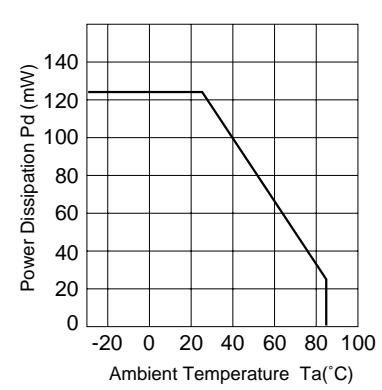
■ Pulse Duration vs. Maximum Tolerable Peak Current



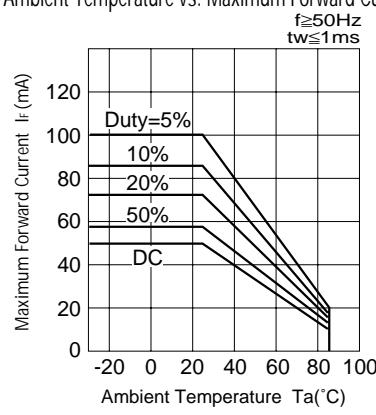
■ Duty Cycle vs. Maximum Forward Current



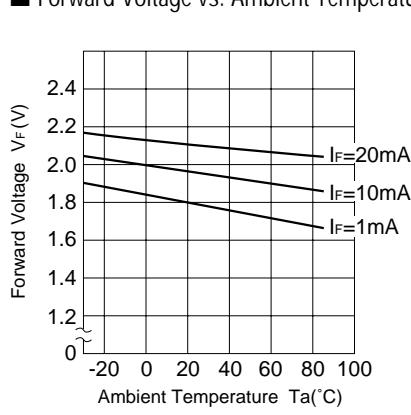
■ Power Dissipation vs. Ambient Temperature



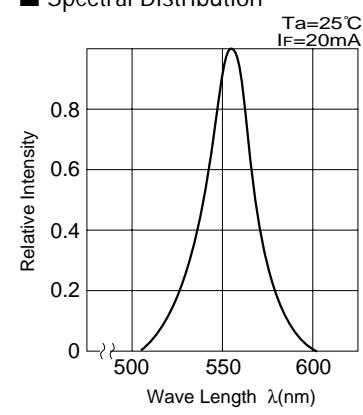
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



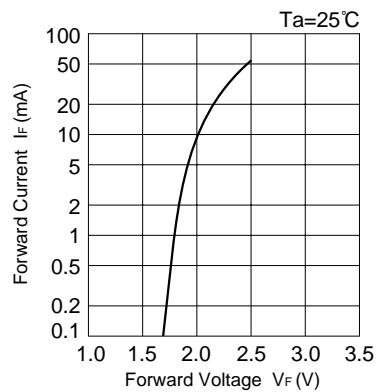
■ Spectral Distribution



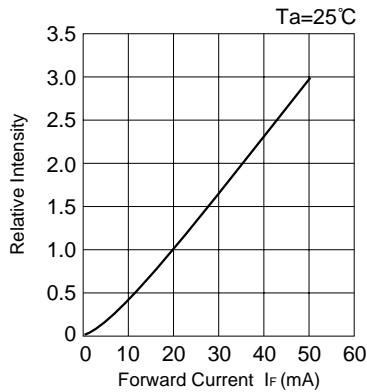


■ LED LAMP PG3822K

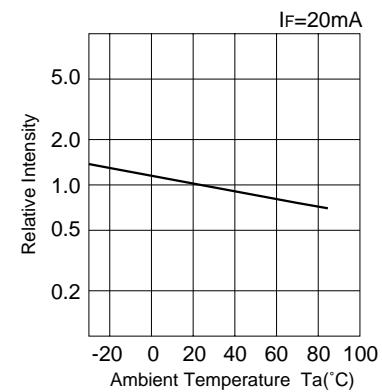
■ Forward Voltage vs. Forward Current



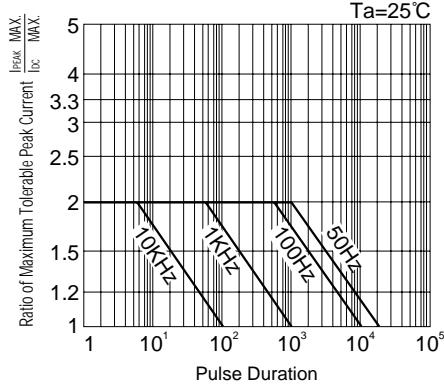
■ Forward Current vs. Relative Intensity



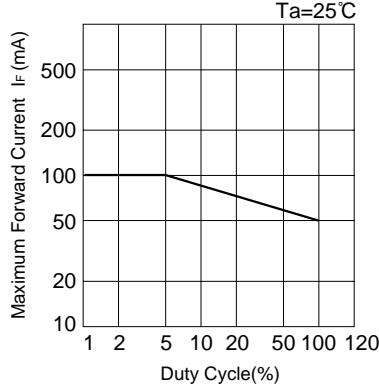
■ Ambient Temperature vs. Relative Intensity



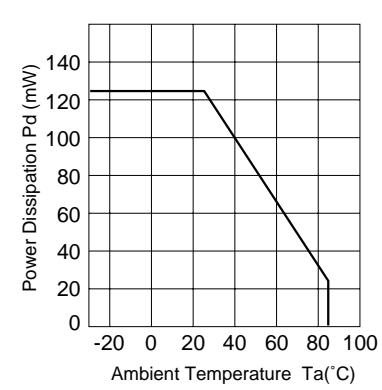
■ Pulse Duration vs. Maximum Tolerable Peak Current



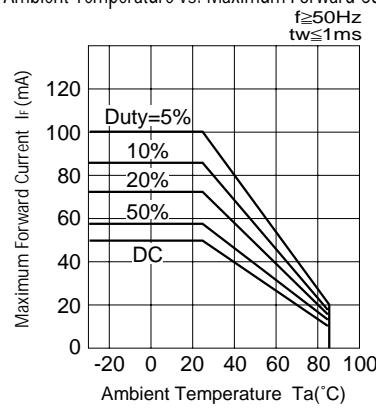
■ Duty Cycle vs. Maximum Forward Current



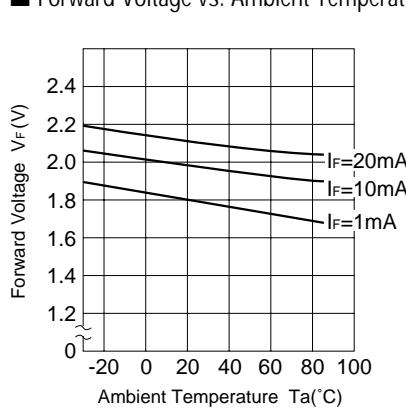
■ Power Dissipation vs. Ambient Temperature



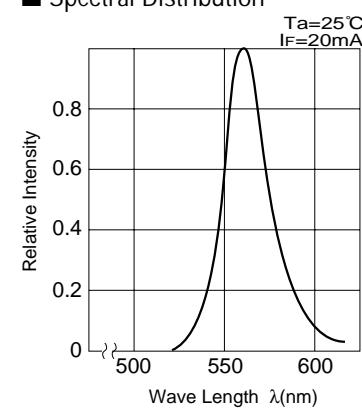
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



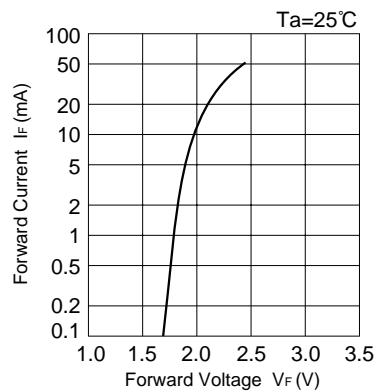
■ Spectral Distribution



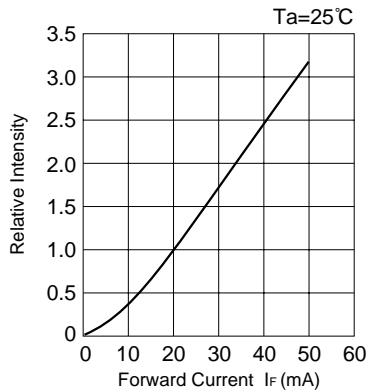


■ LED LAMP PY3822K

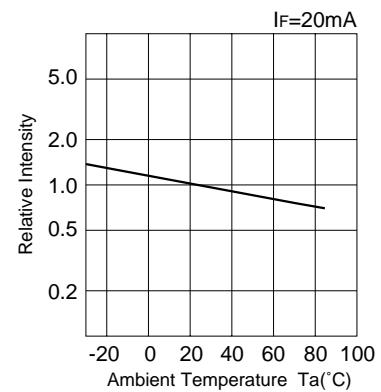
■ Forward Voltage vs. Forward Current



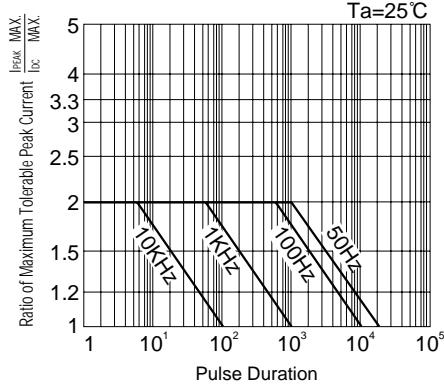
■ Forward Current vs. Relative Intensity



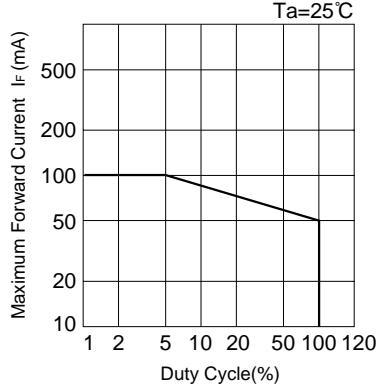
■ Ambient Temperature vs. Relative Intensity



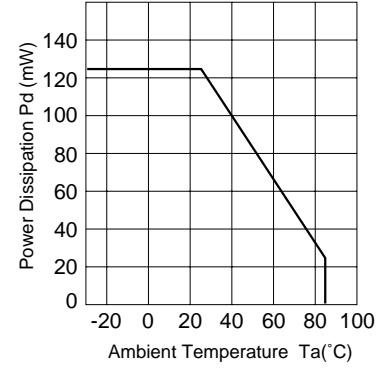
■ Pulse Duration vs. Maximum Tolerable Peak Current



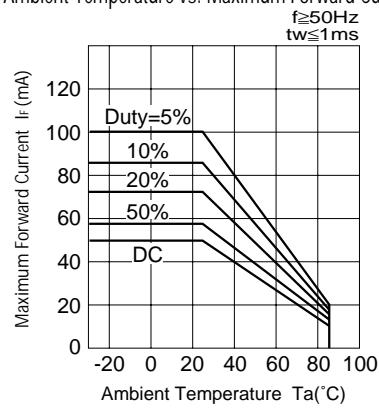
■ Duty Cycle vs. Maximum Forward Current



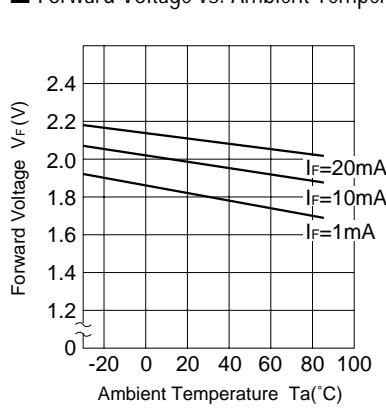
■ Power Dissipation vs. Ambient Temperature



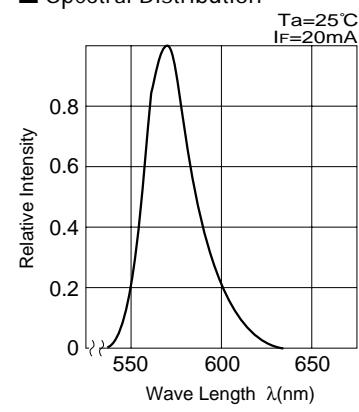
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



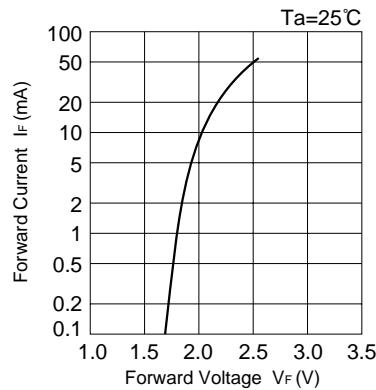
■ Spectral Distribution



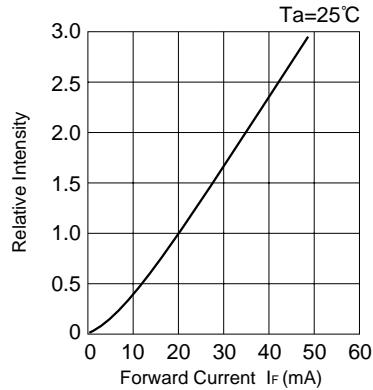


■ LED LAMP AY3822K

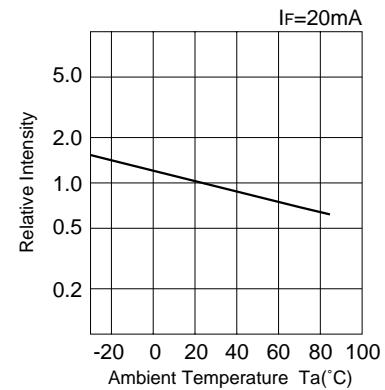
■ Forward Voltage vs. Forward Current



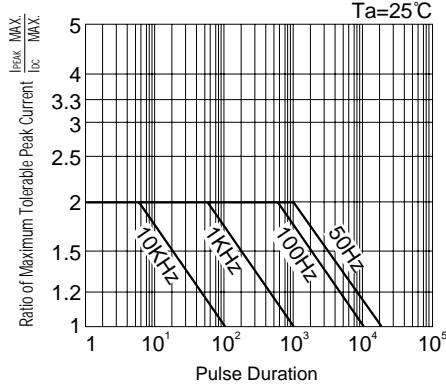
■ Forward Current vs. Relative Intensity



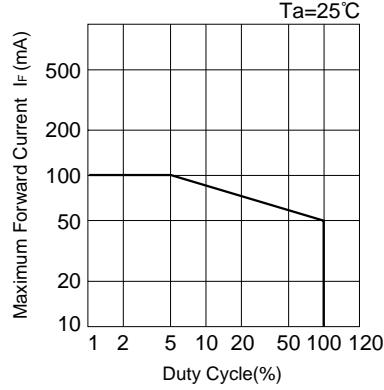
■ Ambient Temperature vs. Relative Intensity



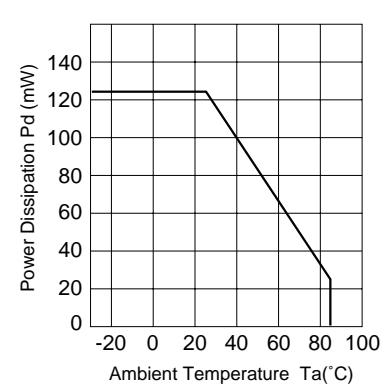
■ Pulse Duration vs. Maximum Tolerable Peak Current



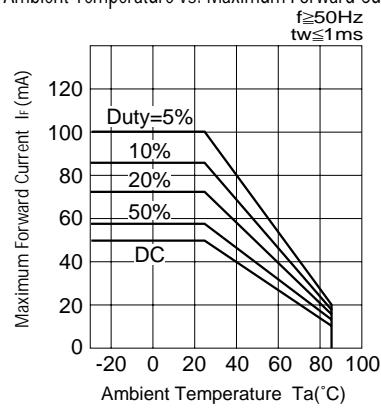
■ Duty Cycle vs. Maximum Forward Current



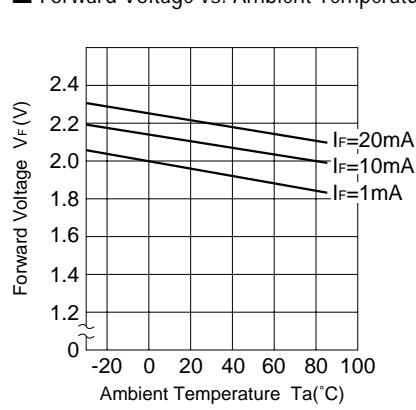
■ Power Dissipation vs. Ambient Temperature



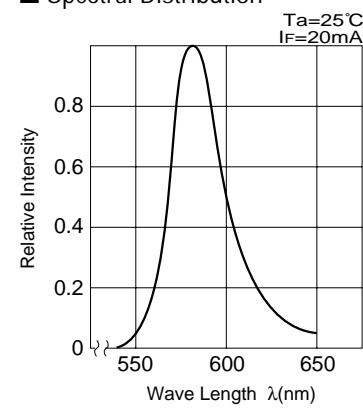
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



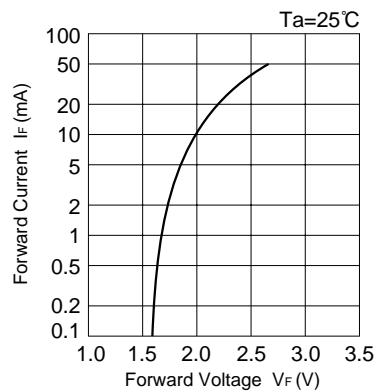
■ Spectral Distribution



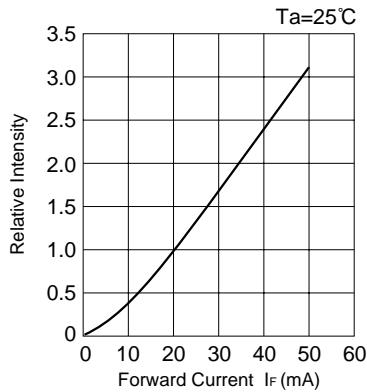


■ LED LAMP AA3822K

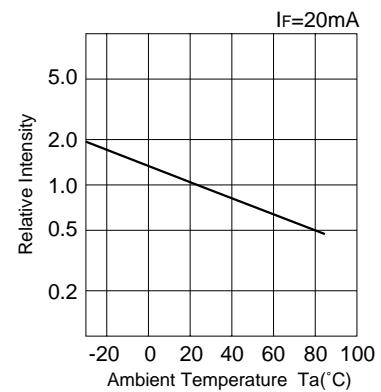
■ Forward Voltage vs. Forward Current



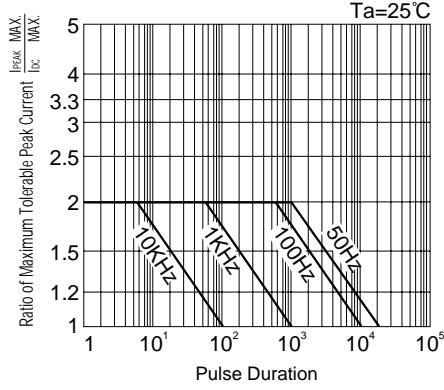
■ Forward Current vs. Relative Intensity



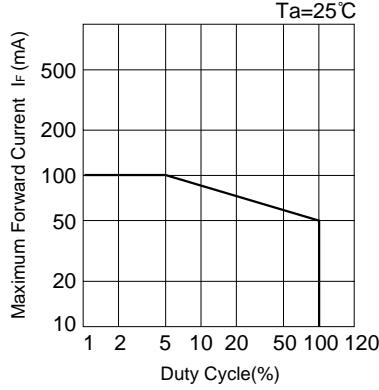
■ Ambient Temperature vs. Relative Intensity



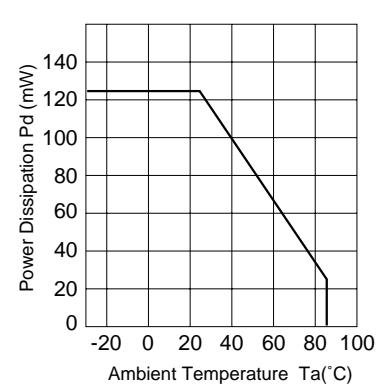
■ Pulse Duration vs. Maximum Tolerable Peak Current



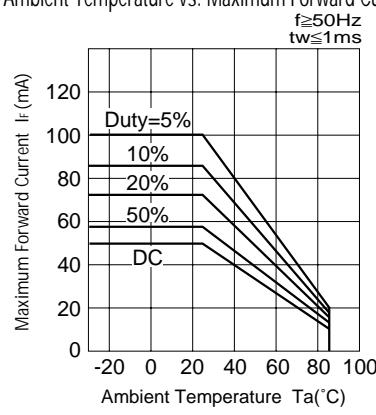
■ Duty Cycle vs. Maximum Forward Current



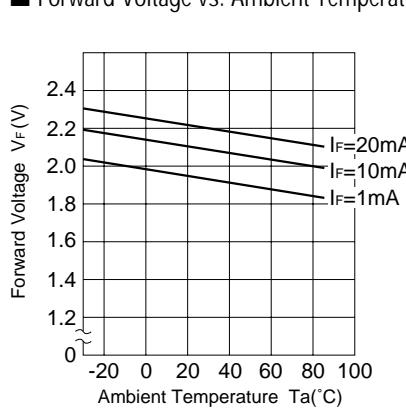
■ Power Dissipation vs. Ambient Temperature



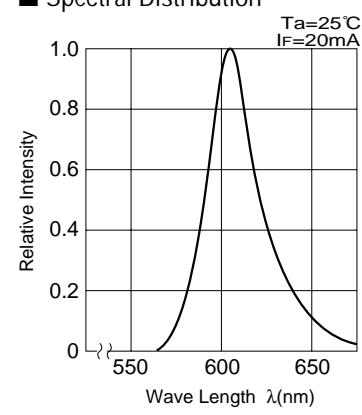
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



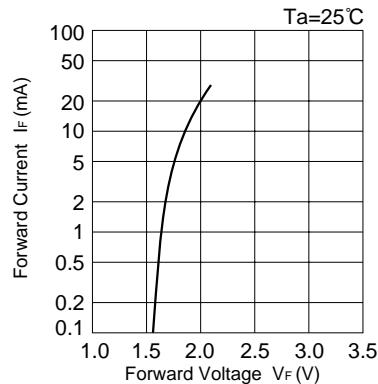
■ Spectral Distribution



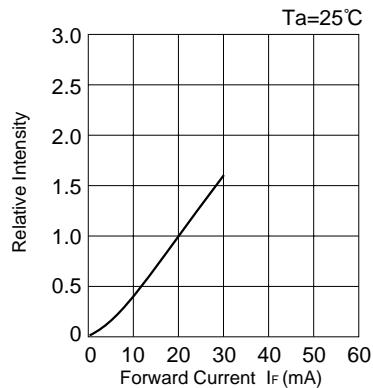


■ LED LAMP VR3822K

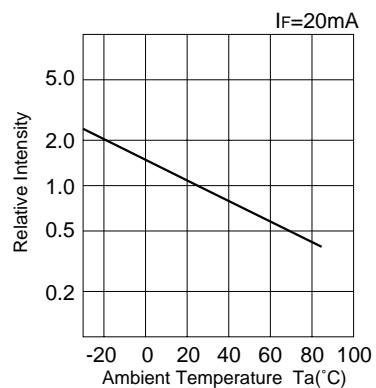
■ Forward Voltage vs. Forward Current



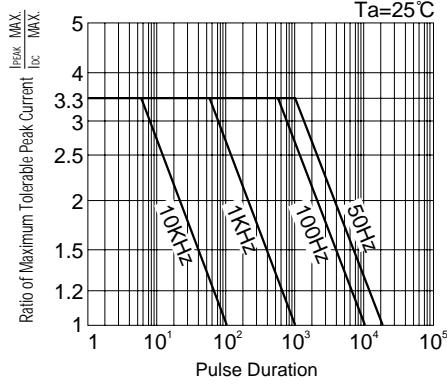
■ Forward Current vs. Relative Intensity



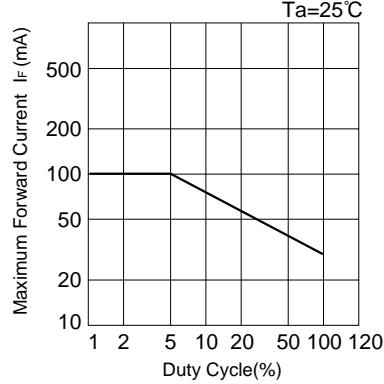
■ Ambient Temperature vs. Relative Intensity



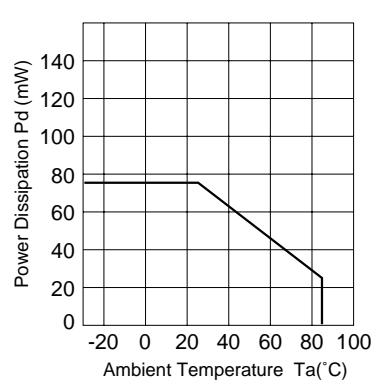
■ Pulse Duration vs. Maximum Tolerable Peak Current



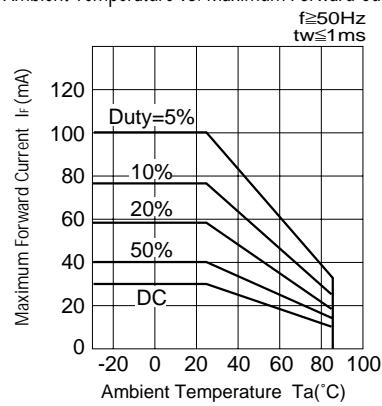
■ Duty Cycle vs. Maximum Forward Current



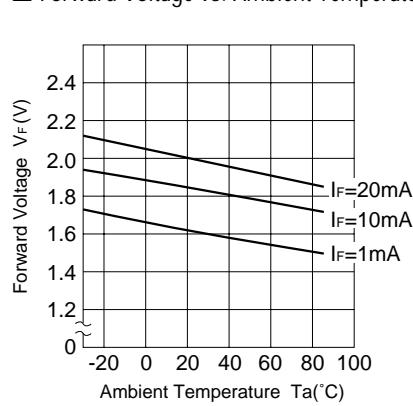
■ Power Dissipation vs. Ambient Temperature



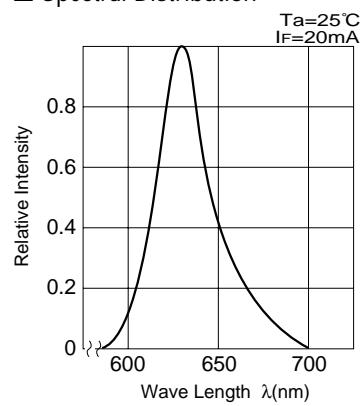
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



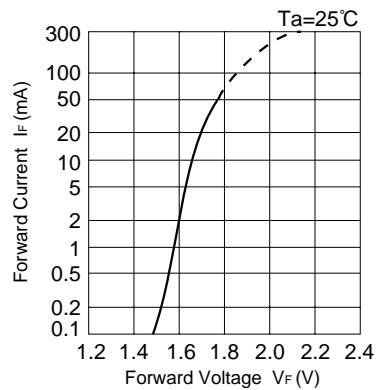
■ Spectral Distribution



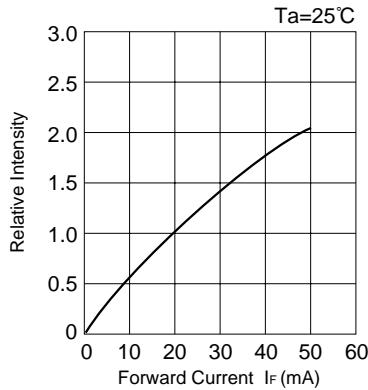


■ LED LAMP BR3822K

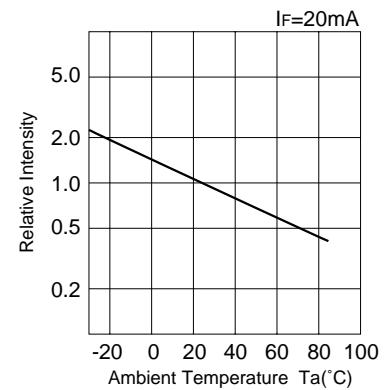
■ Forward Voltage vs. Forward Current



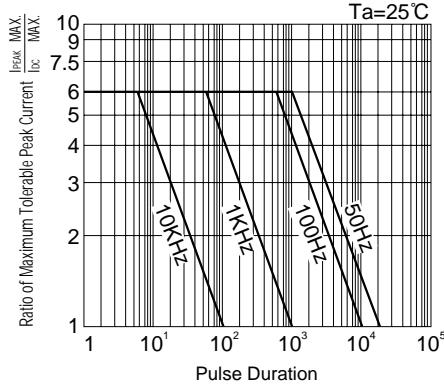
■ Forward Current vs. Relative Intensity



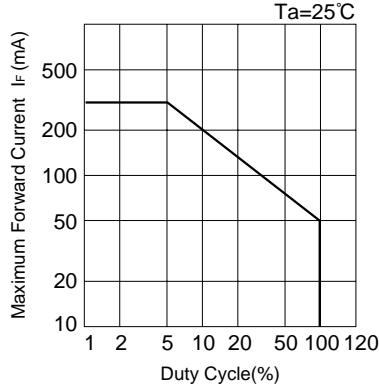
■ Ambient Temperature vs. Relative Intensity



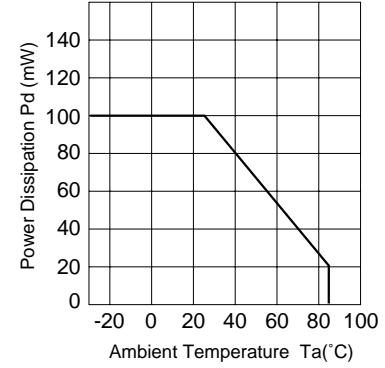
■ Pulse Duration vs. Maximum Tolerable Peak Current



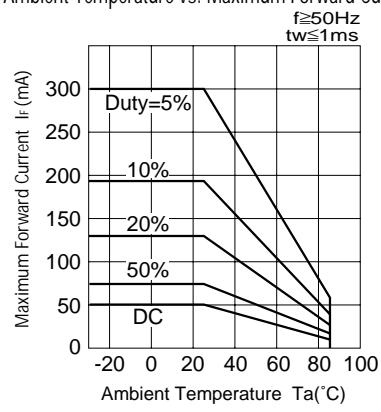
■ Duty Cycle vs. Maximum Forward Current



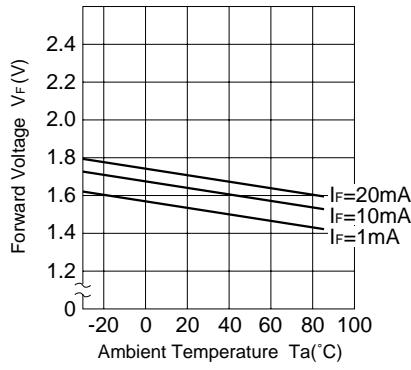
■ Power Dissipation vs. Ambient Temperature



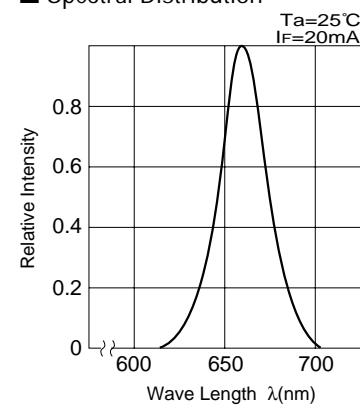
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



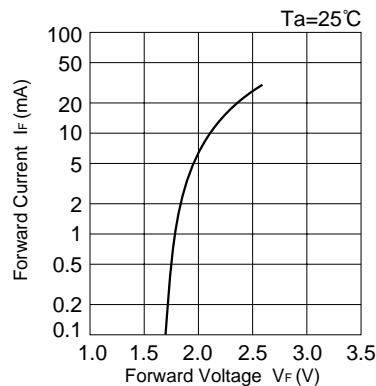
■ Spectral Distribution



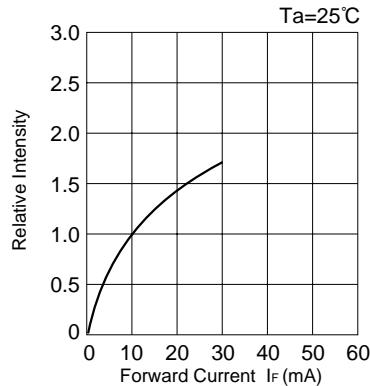


■ LED LAMP PR3822K

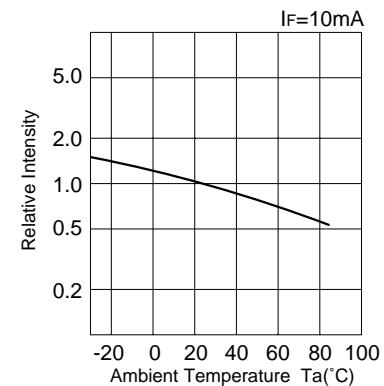
■ Forward Voltage vs. Forward Current



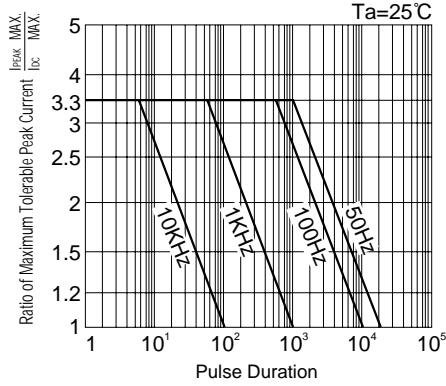
■ Forward Current vs. Relative Intensity



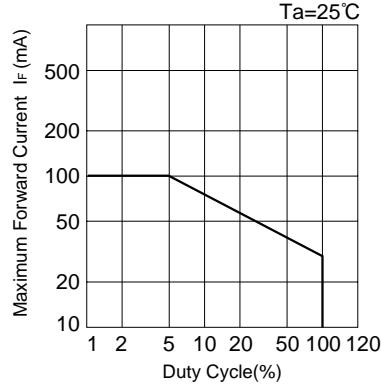
■ Ambient Temperature vs. Relative Intensity



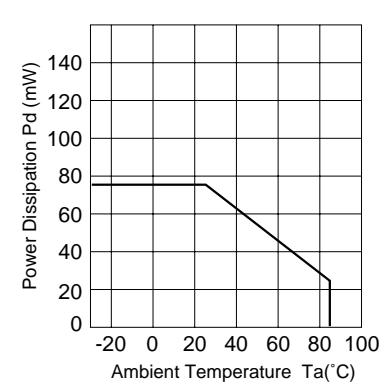
■ Pulse Duration vs. Maximum Tolerable Peak Current



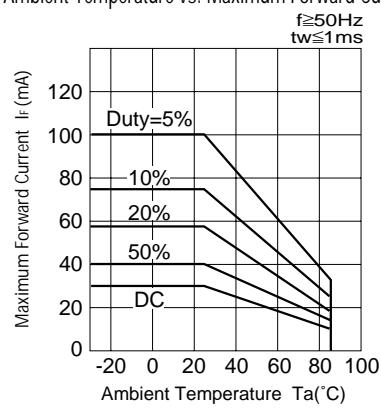
■ Duty Cycle vs. Maximum Forward Current



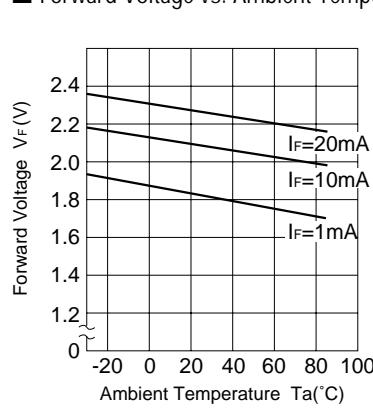
■ Power Dissipation vs. Ambient Temperature



■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



■ Spectral Distribution

