



Absolute Maximum Ratings

Ta = 25°C

		Pure Green	Red	Green	Red	Yellow	Red	Unit
		VRBG		VRPG		VRPY		
Power Dissipation	Pd	75		75		75		mW
Forward Current	IF	30		30		30		mA
Peak Forward Current	IFM	100		100		100		mA
Reverse Voltage	VR	4		4		4		V
Operating Temp.	Topr	-30~+85		-30~+85		-30~+85		°C
Storage Temp.	Tstg	-30~+100		-30~+100		-30~+100		°C
Derating *	ΔIF	0.33		0.33		0.33		mA/°C

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

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

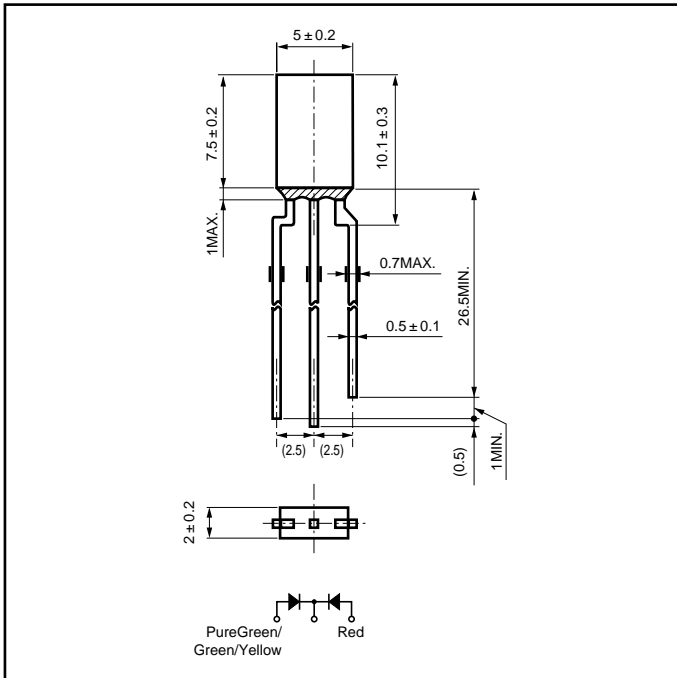
Electro-Optical Characteristics

Ta = 25°C

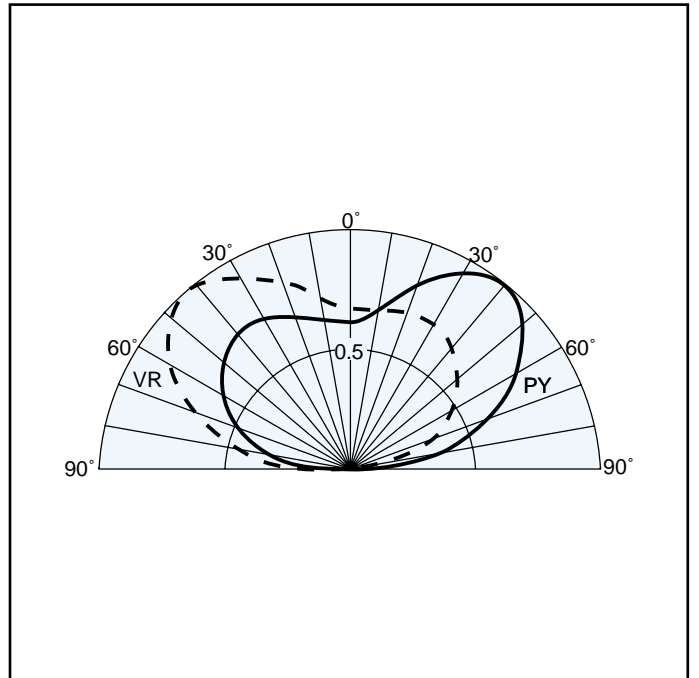
Part No.	Chip		Lens		Luminous Intensity			Wavelength				Forward Voltage			Reverse Current	
	Material	Emitted Color			Iv			λ d	λ p	Δλ		VF			IR	
					MIN	TYP	IF	TYP	TYP	TYP	IF	TYP	MAX	IF	MAX	VR
VRBG5641K	GaP	Pure Green	1	2	20	558	555	30	20	2.1	2.5	20	100	4		
	GaAsP	Red	2	4	20	624	630	30	20	2.0	2.5	20	100	4		
VRPG5641K	GaP	Green	2	4	20	567	560	30	20	2.1	2.5	20	100	4		
	GaAsP	Red	2	4	20	624	630	30	20	2.0	2.5	20	100	4		
VRPY5641K	GaP	Yellow	4	8	20	572	570	30	20	2.1	2.5	20	100	4		
	GaAsP	Red	2	4	20	624	630	30	20	2.0	2.5	20	100	4		
Units			mcd	mcd	mA	nm	nm	nm	mA	V	V	mA	μA	V		

Package Dimensions

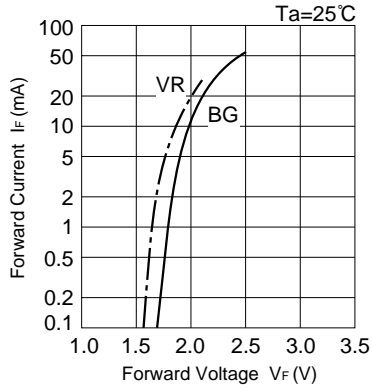
Unit : mm



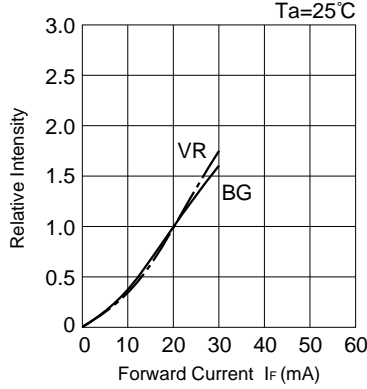
Spatial Distribution



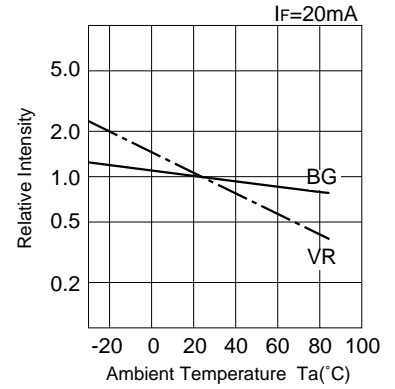
■ Forward Voltage vs. Forward Current



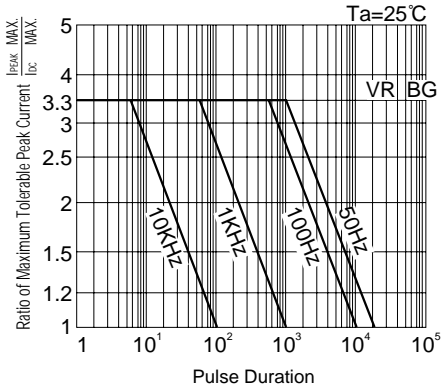
■ Forward Current vs. Relative Intensity



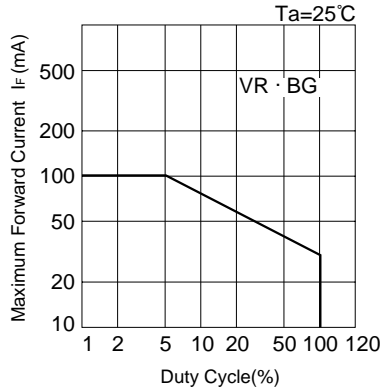
■ Ambient Temperature vs. Relative Intensity



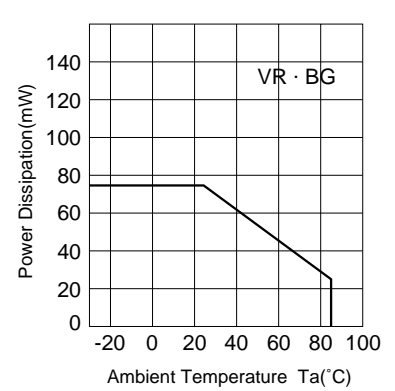
■ Pulse Duration vs. Maximum Tolerable Peak Current



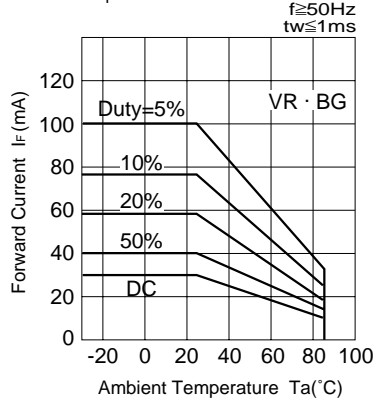
■ Duty Cycle vs. Maximum Forward Current



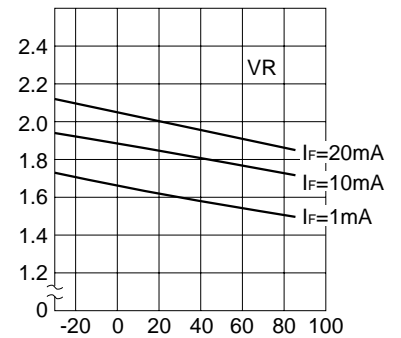
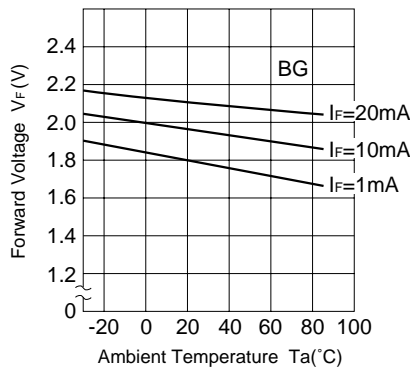
■ Power Dissipation vs. Ambient Temperature



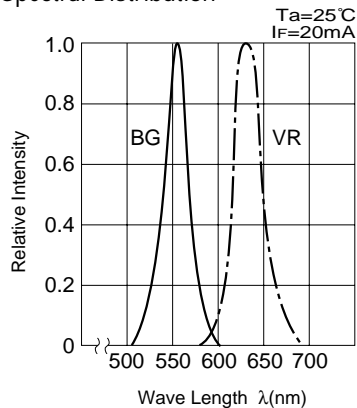
■ Ambient Temperature vs. Maximum Forward Current



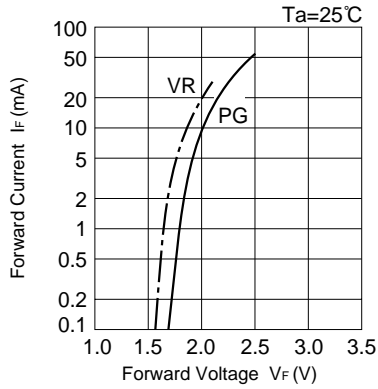
■ Forward Voltage vs. Ambient Temperature



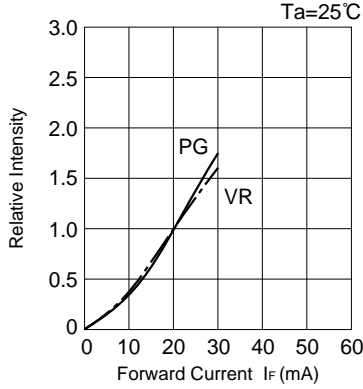
■ Spectral Distribution



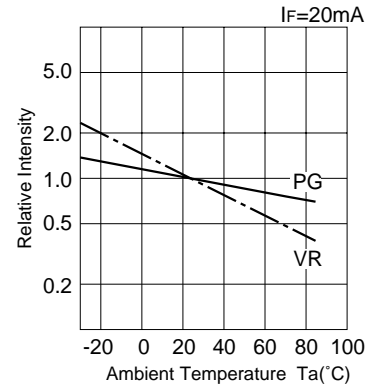
■ Forward Voltage vs. Forward Current



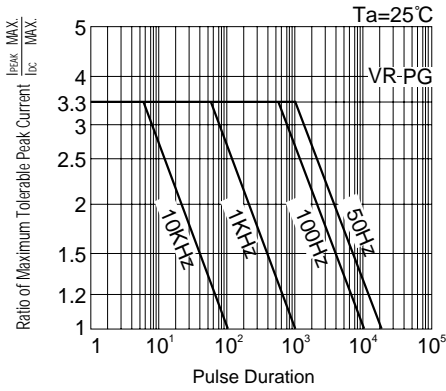
■ Forward Current vs. Relative Intensity



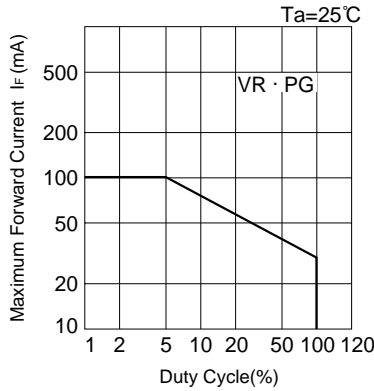
■ Ambient Temperature vs. Relative Intensity



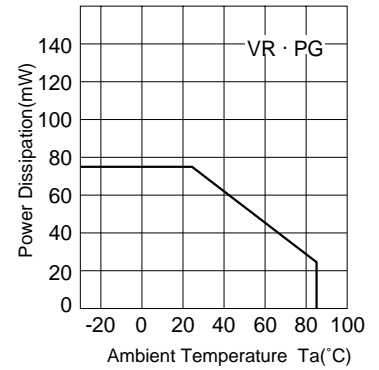
■ Pulse Duration vs. Maximum Tolerable Peak Current



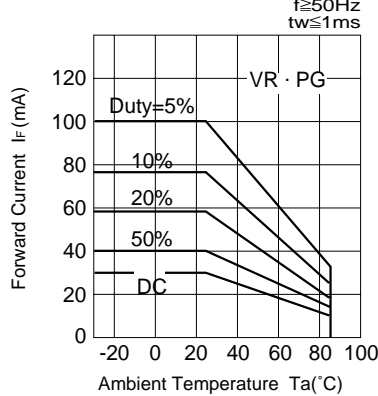
■ Duty Cycle vs. Maximum Forward Current



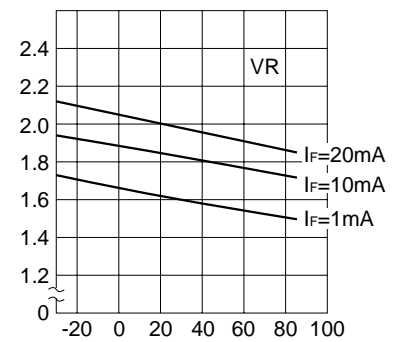
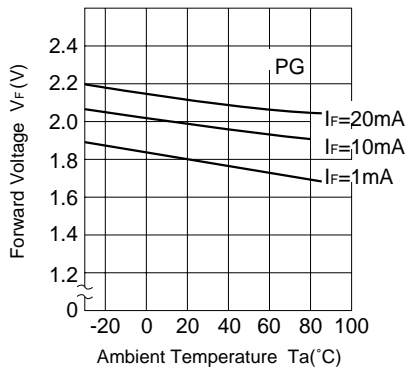
■ Power Dissipation vs. Ambient Temperature



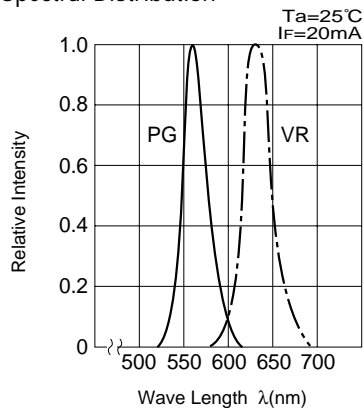
■ Ambient Temperature vs. Maximum Forward Current



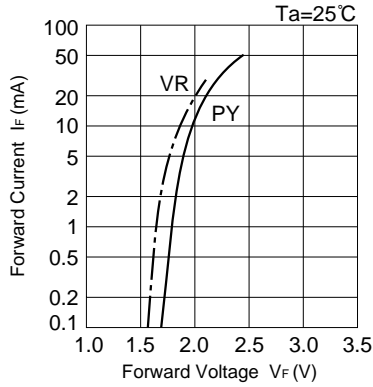
■ Forward Voltage vs. Ambient Temperature



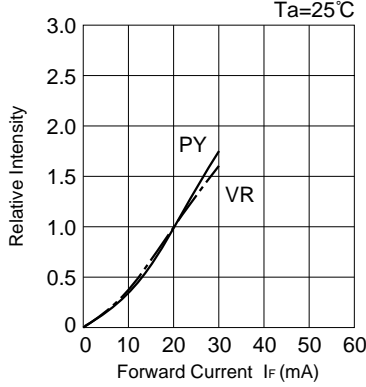
■ Spectral Distribution



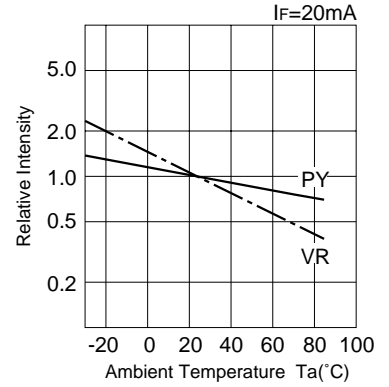
■ Forward Voltage vs. Forward Current



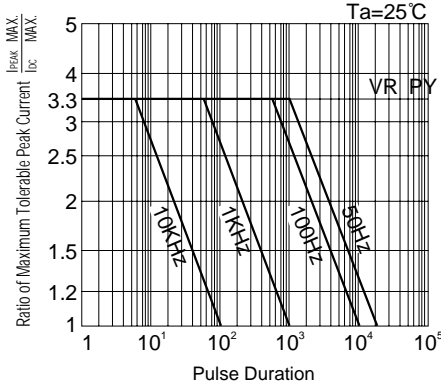
■ Forward Current vs. Relative Intensity



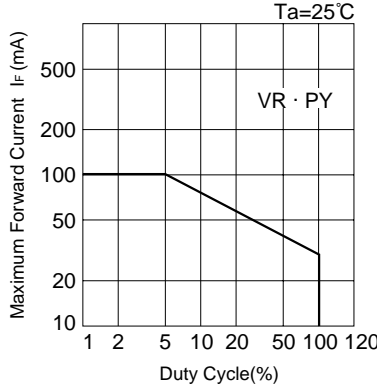
■ Ambient Temperature vs. Relative Intensity



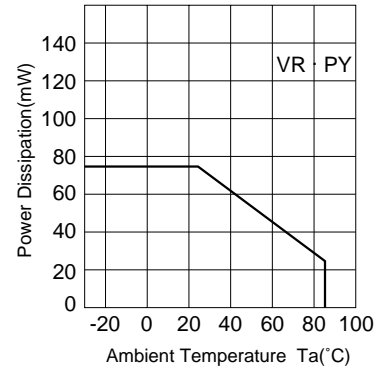
■ Pulse Duration vs. Maximum Tolerable Peak Current



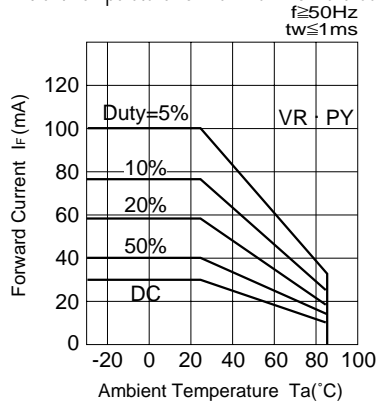
■ Duty Cycle vs. Maximum Forward Current



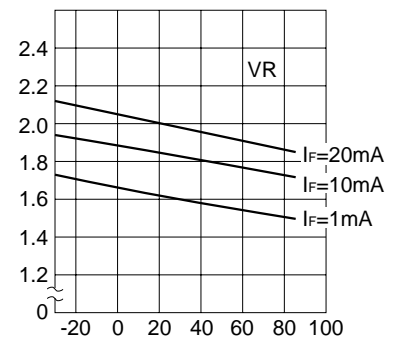
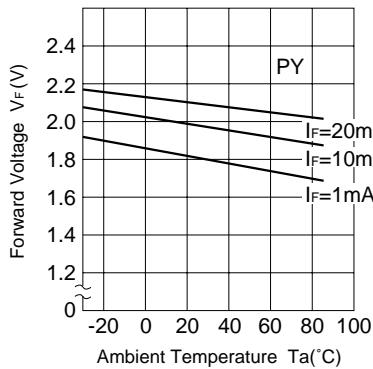
■ Power Dissipation vs. Ambient Temperature



■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



■ Spectral Distribution

