



Absolute Maximum Ratings

Ta = 25°C

		Red	Units
		H	
Power Dissipation	Pd	125	mW
Forward Current	IF	50	mA
Peak Forward Current	IFM	300	mA
Reverse Voltage	VR	4	V
Operating Temp.	Topr	-30~+85	°C
Storage Temp.	Tstg	-30~+100	°C
Derating *	ΔIF	0.67	mA/°C

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

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

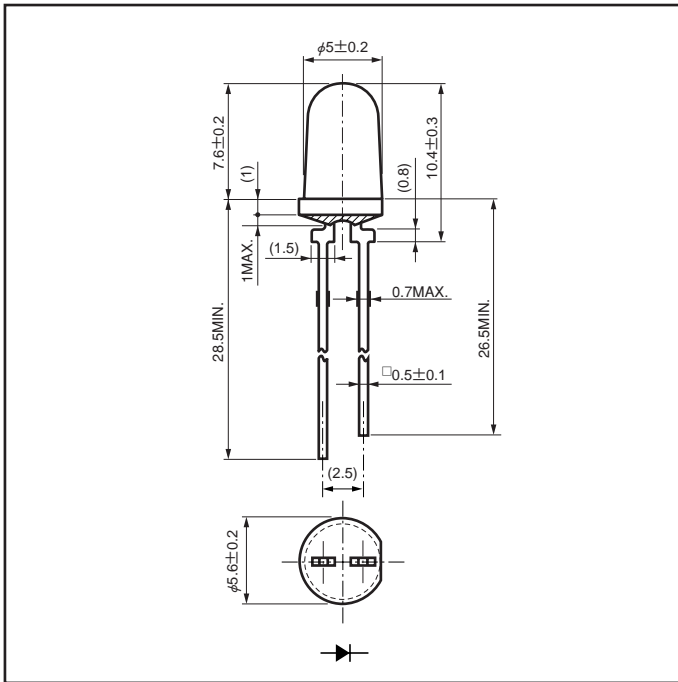
Electro-Optical Characteristics

Ta = 25°C

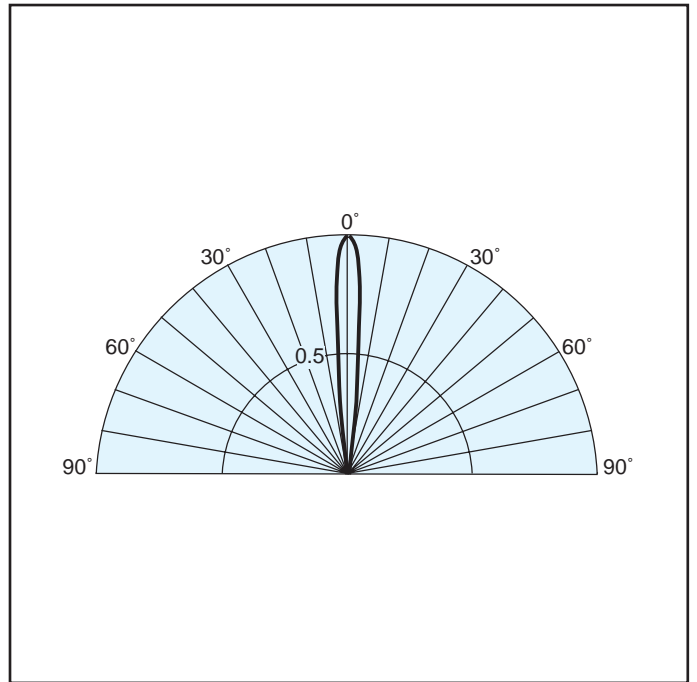
Part No.	Chip		Lens		Luminous Intensity			Wavelength				Forward Voltage			Reverse Current	
	Material	Emitted Color			Iv			λ d	λ p	Δλ		VF			IR	
			MIN	TYP	IF	TYP	TYP	TYP	IF	TYP	MAX	IF	MAX	VR		
H-3000L	GaAlAs	Red	Water Clear	Clear	2,400	3,000	20	647	660	25	20	1.8	2.5	20	100	4
H-2000L					1,400	2,000	20	647	660	25	20	1.8	2.5	20	100	4
H-1000L					700	1,000	20	647	660	25	20	1.8	2.5	20	100	4
Units					mcd	mcd	mA	nm	nm	nm	mA	V	V	mA	μA	V

Package Dimensions

Unit : mm



Spatial Distribution

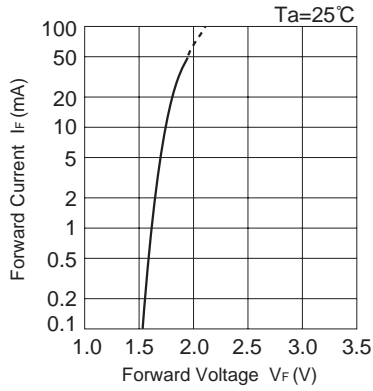




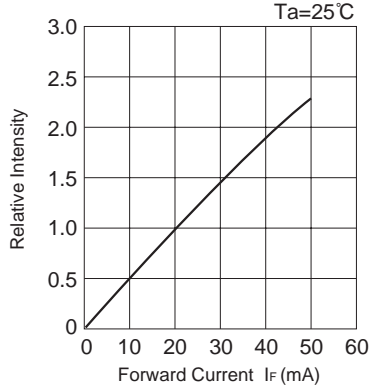
ULTRA HIGH BRIGHTNESS TYPE LED

H-3000L / H-2000L / H-1000L

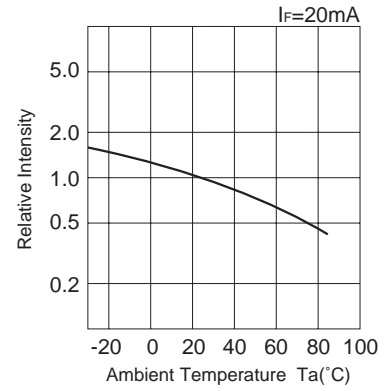
■ Forward Voltage vs. Forward Current



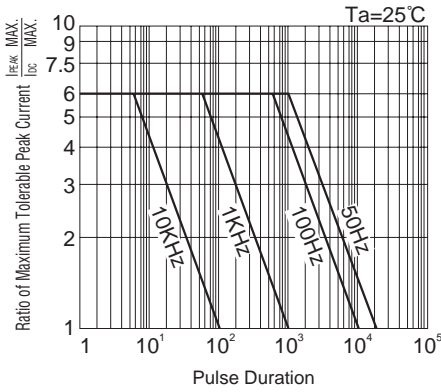
■ Forward Current vs. Relative Intensity



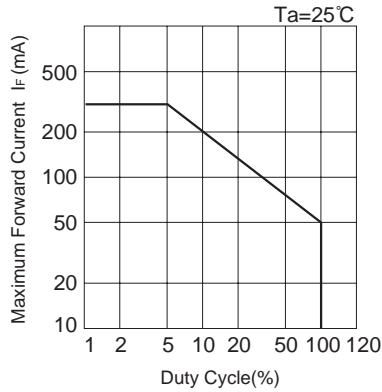
■ Ambient Temperature vs. Relative Intensity



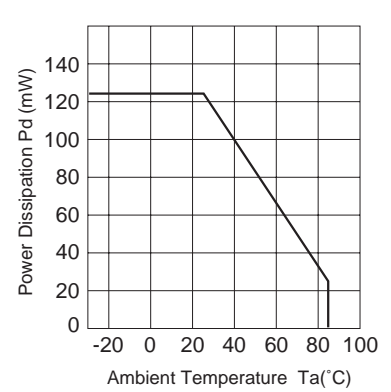
■ Pulse Duration vs. Maximum Tolerable Peak Current



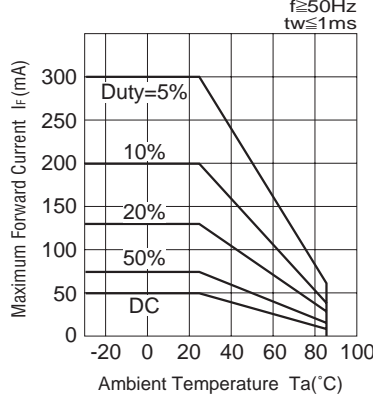
■ Duty Cycle vs. Maximum Forward Current



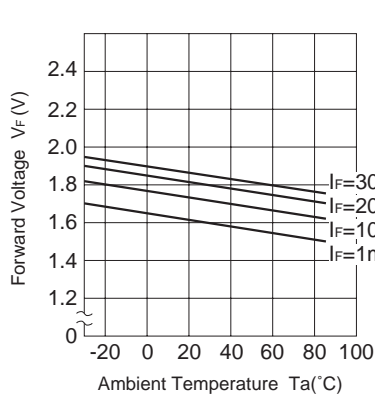
■ Power Dissipation vs. Ambient Temperature



■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



■ Spectral Distribution

