

STANLEY**■ ULTRA HIGH BRIGHTNESS TYPE LED****KR5005S**

ø5mm Round Shape Type

■ Absolute Maximum Ratings

Ta = 25°C

		Red	KR		Units
Power Dissipation	Pd	125			
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

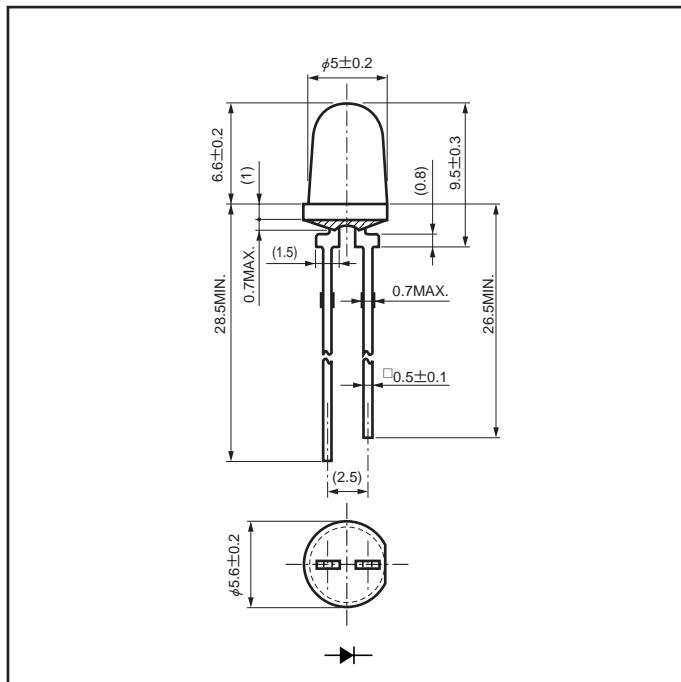
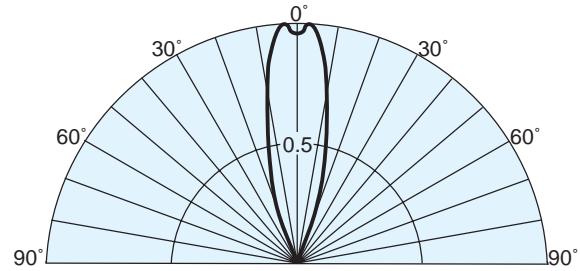
■ Electro-Optical Characteristics

Ta = 25°C

Part No.	Chip		Lens		Luminous Intensity			Wavelength			Forward Voltage			Reverse Current			
	Material	Emitted Color			MIN	TYP	IF	λd	λp	Δλ	TYP	IF	TYP	MAX	IF	IR	
	KR5005S	GaAlAs	Red	Water Clear	Clear	200	300	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

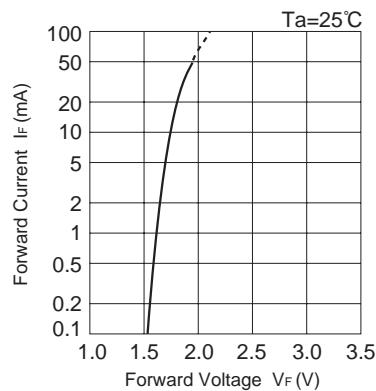
**■ Spatial Distribution**

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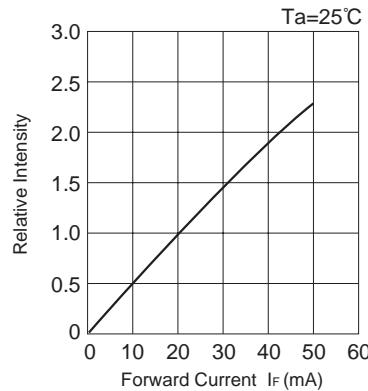
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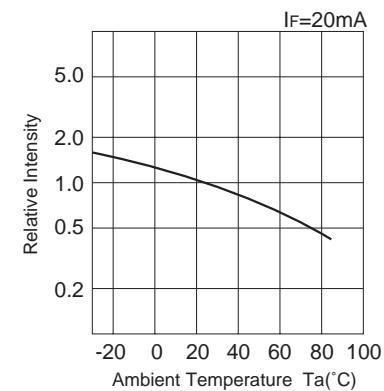
■ Forward Voltage vs. Forward Current



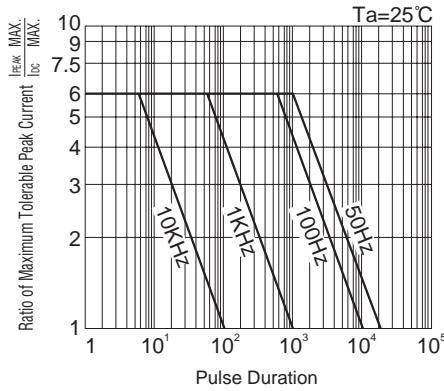
■ Forward Current vs. Relative Intensity



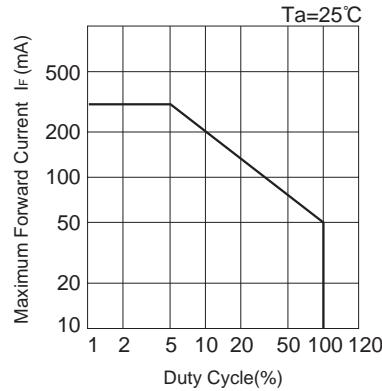
■ Ambient Temperature vs. Relative Intensity



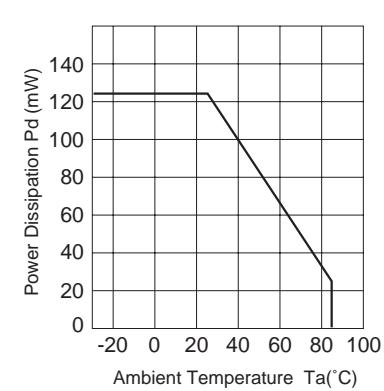
■ Pulse Duration vs. Maximum Tolerable Peak Current



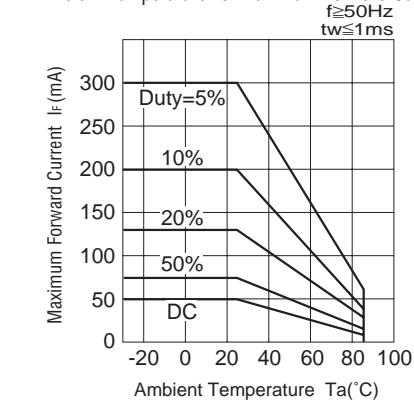
■ DutyCycle vs. Maximum Forward Current



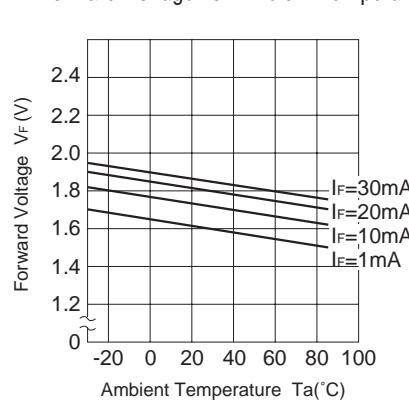
■ Power Dissipation vs. Ambient Temperature



■ Ambient Temperature vs. Maximum Forward Current



■ Forward Voltage vs. Ambient Temperature



■ Spectral Distribution

