

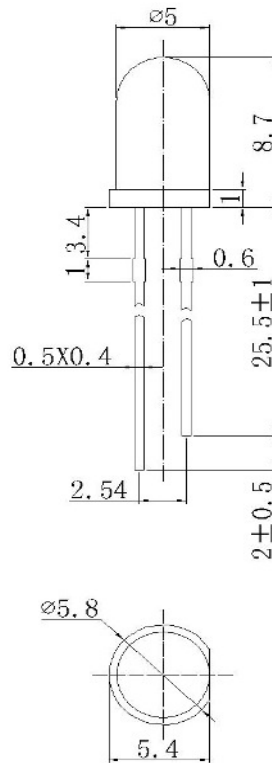


# Hubei Kento Electronic Co., Ltd

## Specification for LED Product

### 5AR3UD09

Package Dimensions(mm)



Notes:

All dimension units are millimeters.

All dimension tolerance is  $\pm 0.2$ mm unless otherwise noted.

An epoxy meniscus may extend about 1.5mm down the leads.

Burr around bottom of epoxy may be 0.5mm max.

Synopsis:	5mm Round Type	Red Diffused Lens
	Red LED Lamp	



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<b>Typ 5AR3UD09</b>						
Typical Electrical & Optical Characteristics (Ta = 25°)						
ITEMS	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF	IF = 20mA	1.4	1.8	2.5	V
Reverse Current	IR	VR = 5V	---	---	1.1	μA
Dominant Wavelength	λD	IF = 20mA	620	---	630	nm
Luminous Intensity	IV	IF = 20mA	708	926	1015	mcd
50% Power Viewing Angle	2θ½	IF = 20mA	---	17	---	deg
Absolute Maximum Ratings at (Ta = 25°)						
ITEMS	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT			
Forward Current	IF	50	mA			
Peak Forward Current	IFP	220	mA			
Continuous Forward Current	IL	20	mA			
Reverse Voltage	VR	5	V			
Power Dissipation	PD	90	mW			
Operation Temperature	Topr	-40 ~ +80	C			
Storage Temperature	Tstg	-40 ~ +80	C			
Lead Soldering Temperature	Tsol	Max.260°C for 5 sec Max.				

IFP Conditions Pulse Width 10msec duty 1/10

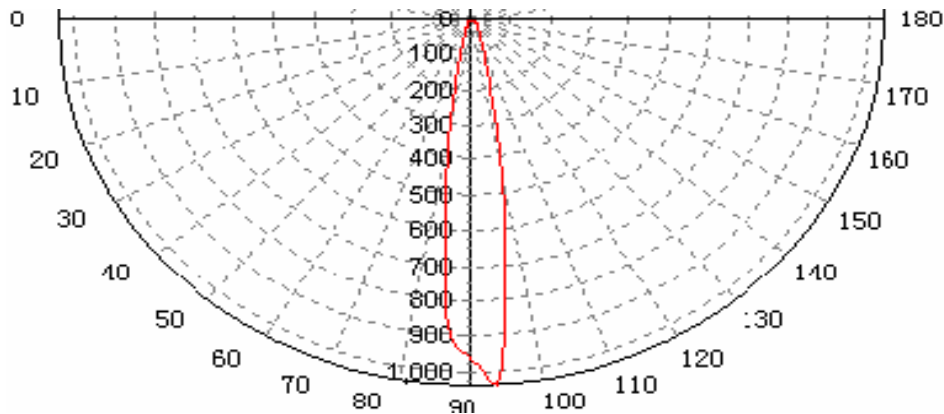
Tsol Conditions 4mm from the base of the epoxy bulb



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#### Spatial Distribution



#### Reliability Performance

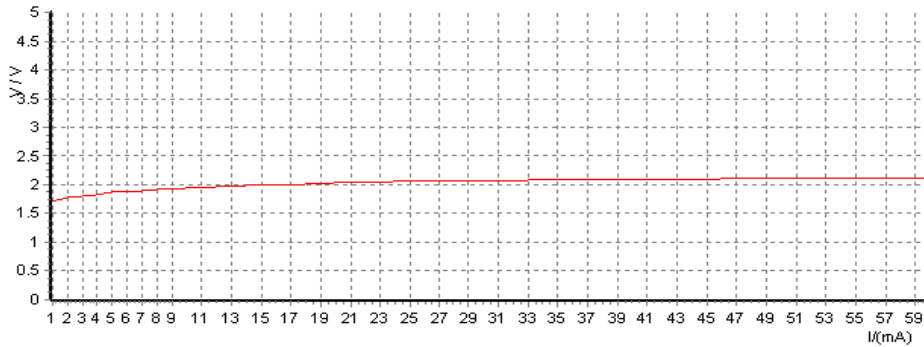
Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	Standard
Life Test	Life Test	Ta=25°±5 IF=20mA	1000 hrs	10PCS	
Environment Test	Thermal Shock	-10°±5° ← → +100°±5° 5min. 10sec. 5min.	100 cycle	10PCS	
	Temperature Cycle	-55°±5° ← → +85°±5° 30min. 5min. 30min.	100 cycle	10PCS	
	High Temp High Hum	Ta=85°±5% RH =85%±0.5 %RH	240 hrs	10PCS	
	High Temp Storage	Ta=100°±5%	1000 hrs	10PCS	
	Low Temp Storage	Ta=-55°±5%	1000 hrs	10PCS	
Mechanical Test	Resistance Soldering	Ta=260°±5%	5 sec.	10PCS	
	Lead Intert	□□2.5 □□(0.25 □□) 0° ~ 90° ~ 0°	3 times	10PCS	



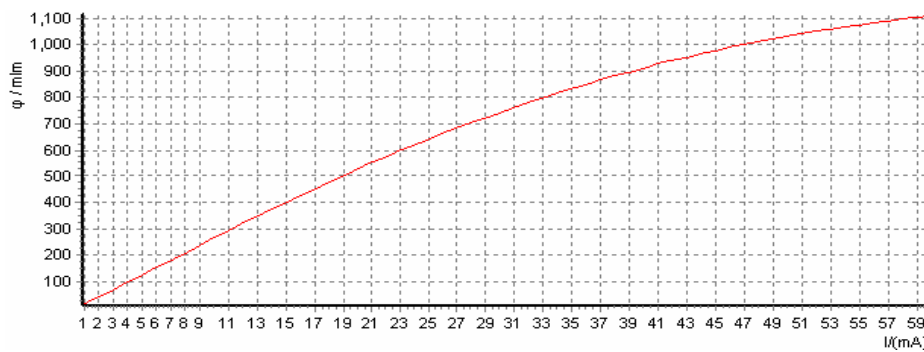
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## 5AR3UD09

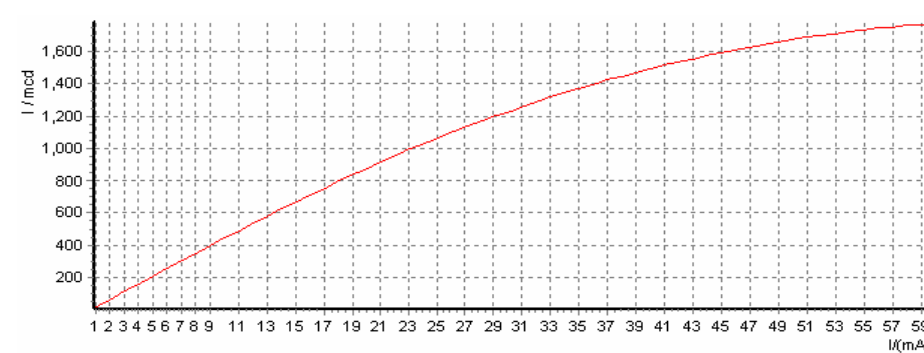
Typical Optical/Electrical Characteristics Curves (Ta=25° Unless Otherwise Noted)



### Current-Voltage Curve



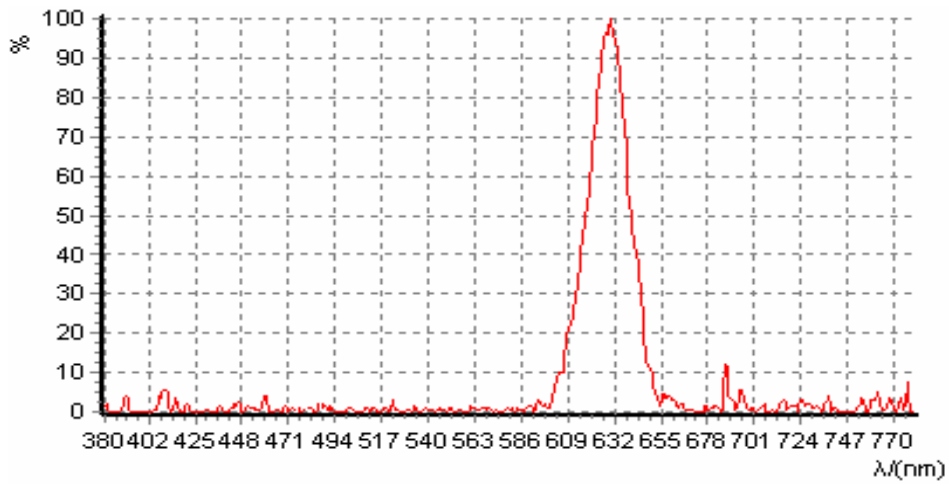
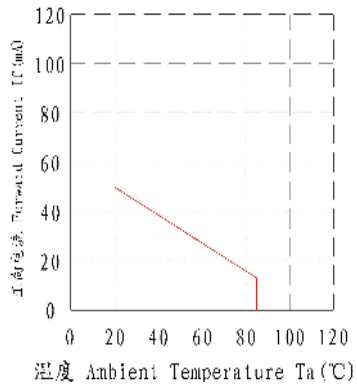
### Current-Luminous intensity Curve



### Current-Luminous flux Curve

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5AR3UD09



Wavelength

