



# LUR05AF-25

## LIGHT EMITTING DIODE

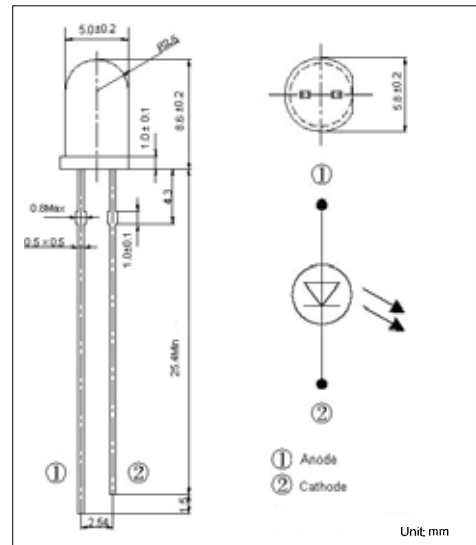
### LED LAMP

#### DESCRIPTION

25 Degree 5mm Round LED Lamp in High Red Color with Water Clear Lens and Stopper. Dice Material: AlGaInP

#### APPLICATION

- \* Advertising Signs
- \* Indicators
- \* Traffic
- \* Automotive Lighting
- \* Opto Mouse



#### ORDERING INFORMATION

Ordering Number
LUR05AF-25

<p>LUR05AF-25</p> <p>(1)View Angle</p> <p>(2)Package Outline</p> <p>(3)Encapsulate Type</p> <p>(4)Diameter of Lamp</p> <p>(5)Color Type</p> <p>(6)Product Type</p>	<p>(1) 25: 25°±3°</p> <p>(2) F: Round with Brim</p> <p>(3) A: Colorless Transparent</p> <p>(4) 05: Φ5</p> <p>(5) UR: Ultra Red</p> <p>(6) L: Lamp</p>
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■ ABSOLUTE MAXIMUM RATINGS (Ta=25 )

PARAMETER	SYMBOL	RATINGS	UNIT
Forward Current	I <sub>f</sub>	20	mA
Peak Forward Current	I <sub>fp</sub>	80	mA
Power Dissipation	P <sub>D</sub>	100	mW
Reverse Voltage	V <sub>r</sub>	5	V
Lead Soldering Temperature	T <sub>sol</sub>	MAX 260 for 3sec max (3mm from the base of the epoxy bulb)	
Electrostatic Discharge Classification	ESD	CLASS1	
Operating Temperature	T <sub>OPR</sub>	-40 ~ +85	
Storage Temperature	T <sub>STG</sub>	-40 ~ +100	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL OPTICAL CHARACTERISTICS

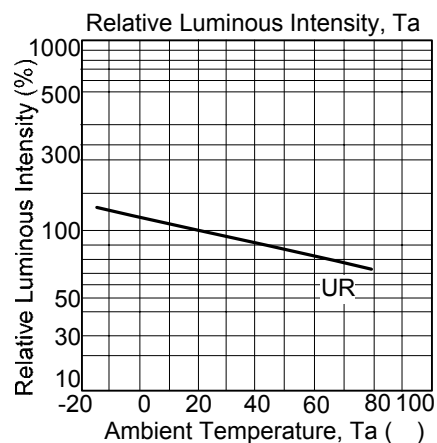
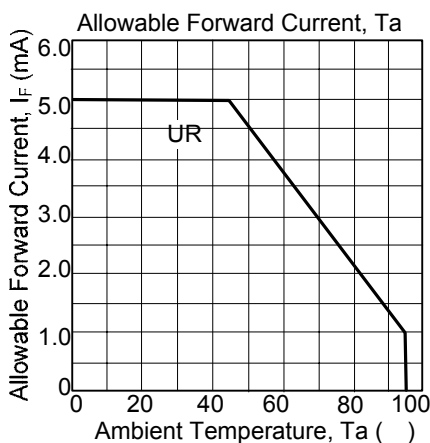
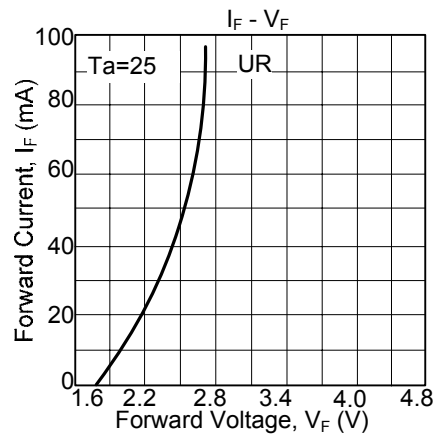
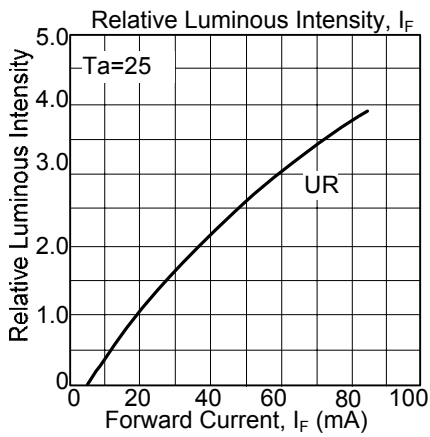
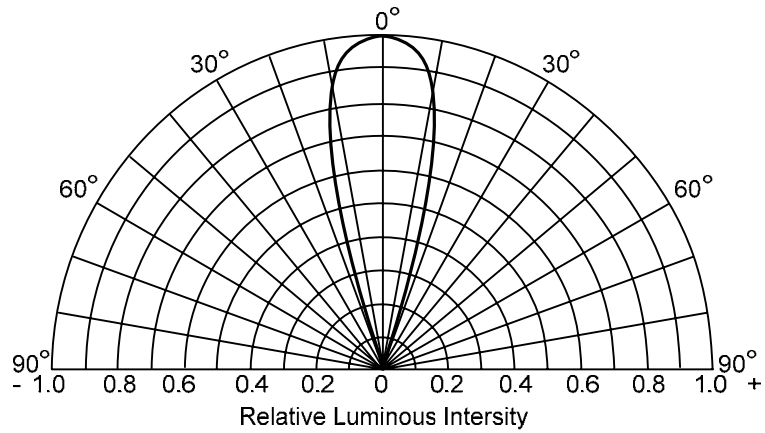
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Dominant Wavelength	λ <sub>D</sub>	I <sub>F</sub> =20mA	620		625	nm
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> =20mA	2500		4000	mcd
Viewing Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA		25		deg
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	1.7	2.1	2.4	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V			10	μA

■ RADIOMETRIC INTENSITY

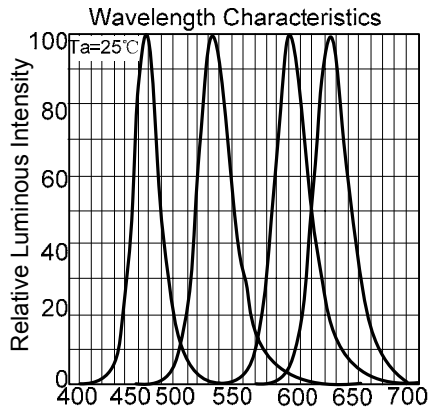
Bin Limits (mW/Sr at 20mA)

Bin	Min.	Max.
K	8.5	10.2
L	10.2	12.3
M	12.3	14.7
N	14.7	17.7
P	17.7	21.2
Q	21.2	25.4
R	25.4	30.5
S	30.5	36.6
T	36.6	43.9

■ TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



### ■ TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



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