

UNISONIC TECHNOLOGIES CO., LTD

# LIS05AF-20

### INFRARED LAMP LED

## LIS05AF-20

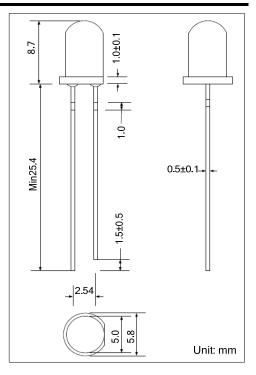
#### DESCRIPTION

The UTC **LIS05AF-20** is kind of a infrared lamp led which is specially applicated for the lamp. The features include: free air transmission system, opto-electronic switch and floppy disk drive.

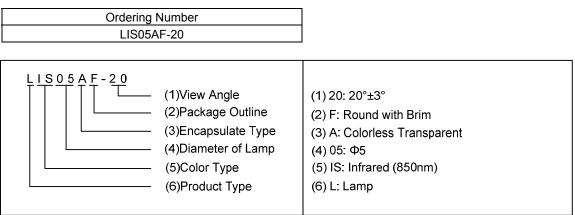
#### FEATURES

\* With Infrared applied system

\* Internal smoke detector



#### ORDERING INFORMATION



#### ■ ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT
Reverse Voltage	V <sub>R</sub>	5	V
Forward Current	I <sub>F</sub>	20	mA
Peak Forward current (Note 2)	I <sub>FM</sub>	1000	mA
Power Dissipation	PD	150	mW
Operation Temperature	T <sub>A</sub>	-30~+65	°C
Lead Soldering Temperature (Note 3)	T <sub>SD</sub>	260	°C
Storage Temperature	T <sub>STG</sub>	-40~+80	°C

Note: 1. 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.

2. IFP Conditions----Pulse WIdth ≤100s and Duty≤ 1%.(Pulse test)

3. t ≤5s,to shell 2mm

#### ■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C, unless otherwise specified)

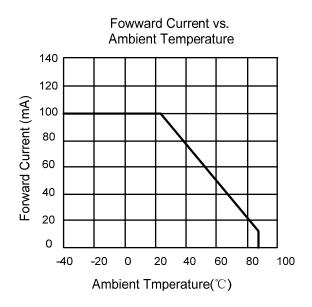
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	1.1		1.5	V
Reverse Current	I <sub>R</sub>	VR=5V	0		10	μA
Radiant Intensity	E <sub>e</sub>	I <sub>F</sub> =20mA	30		38	mW/sr
Peak Wavelength	λρ	I <sub>F</sub> =20mA		850		nm
Spectral Radiation Bandwidth	Δλ	I <sub>F</sub> =20mA		45		nm
Viewing Angle	201/2			20		deg
Rise Time	T <sub>R</sub>	I <sub>F</sub> =20mA		2		μs
Fall Time	T <sub>F</sub>	I <sub>F</sub> =20mA		1		μs

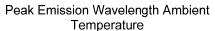


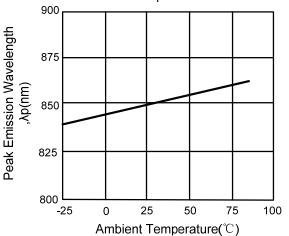
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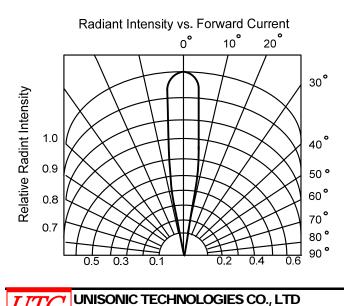
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#### TYPICAL CHARACTERISTICS

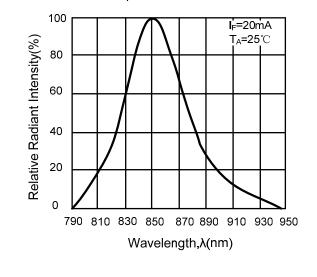






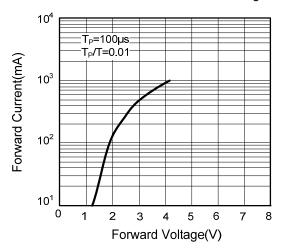


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**Spectral Distribution** 

Forward Current vs. Forward Voltage





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