



LIR05AF-25

LIGHT EMITTING DIODE

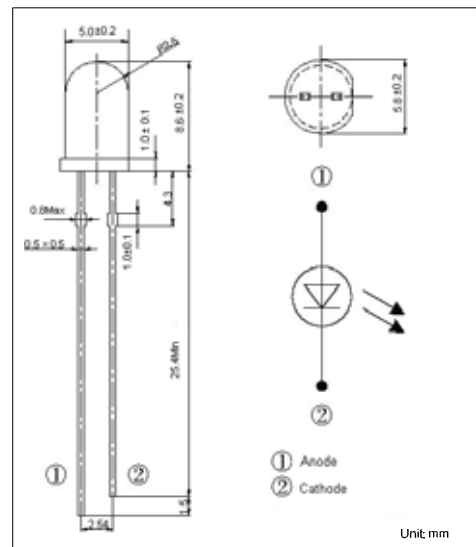
LED LAMP

DESCRIPTION

UTC **LIR05AF-25** is a high intensity infrared emitting diode, molded in a water clear plastic package.

APPLICATIONS

- * TV, VCR, DVD
- * Sound equipment
- * Air conditioner
- * Infrared applied system



ORDERING INFORMATION

Ordering Number
LIR05AF-25

<p>L I R 0 5 A F - 2 5</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) IR: Infra Red 940nm</p> <p>(6) L: Lamp</p>
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■ ABSOLUTE MAXIMUM RATINGS (Ta=25)

PARAMETER	SYMBOL	RATINGS	UNIT
Reverse Voltage	V_R	5	V
Forward Current	I_F	100	mA
Peak Forward Current (Pulse Test)	I_{FM}	1000	mA
Power Dissipation	P_D	150	mW
Operation Temperature	T_{OPR}	-25 ~ +85	
Storage Temperature	T_{STG}	-40 ~ +85	

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
Forward Voltage	V_F	$I_F=20mA$		1.2	1.45	V
	V_F	$I_F=200mA$		1.42		V
Reverse Current	I_R	$V_R=5V$			10	μA
Peak Wavelength	λ_p	$I_F=20mA$		940		nm
Spectral Radiation Bandwidth	$\Delta\lambda$	$I_F=20mA$		50		nm
Viewing Angle	$2\theta_{1/2}$			25		Deg
Raise Time	t_R	$I_F=20mA$		2		μs
Fall Time	t_F	$I_F=20mA$		1		μs
Luminous Intensity	I_e	$I_F=100mA, t_p=20ms$	40	60	200	mW/sr

■ TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

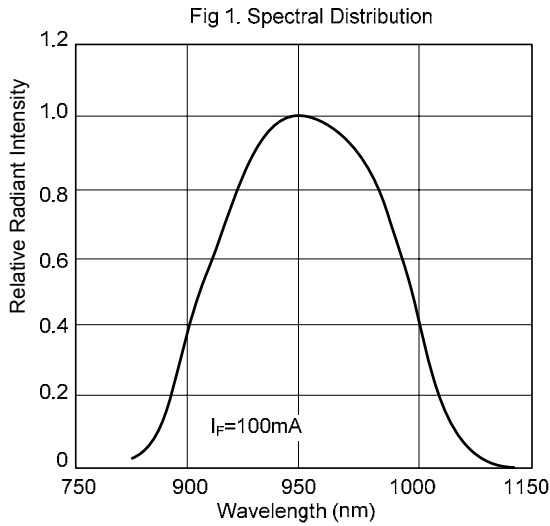
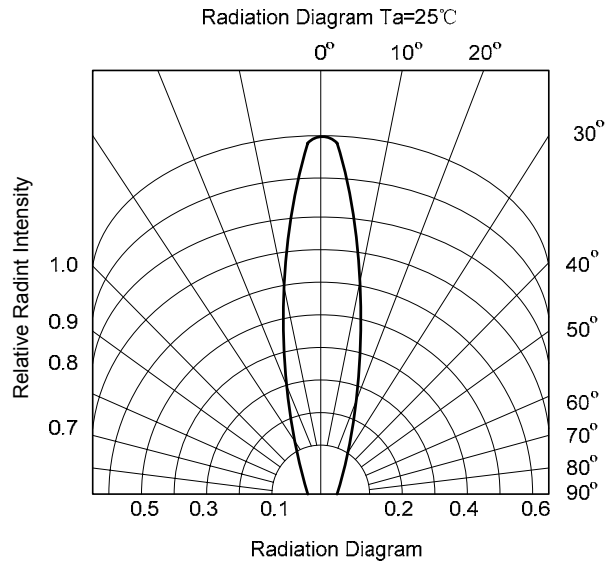


Fig 2. Relative Radiant Intensity vs. Angular Displacement



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