



LIR05AF-60

LIGHT EMITTING DIODE

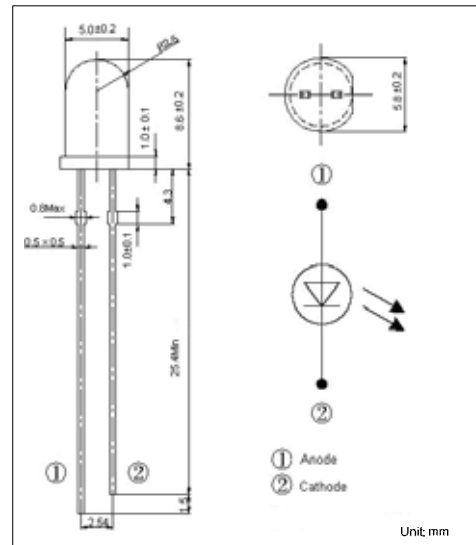
LED LAMP

DESCRIPTION

UTC **LIR05AF-60** 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-60

<p>L I R 0 5 A F - 6 0</p> <p>(1)View Angle (2)Package Outline (3)Encapsulate Type (4)Diameter of Lamp (5)Color Type (6)Product Type</p>	<p>(1) 60: 60°±3° (2) F: Round with Brim (3) A: Colorless Transparent (4) 05: Φ5 (5) IR: Infra Red 940nm (6) L: Lamp</p>
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■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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	°C
Storage Temperature	T_{STG}	-40 ~ +85	°C

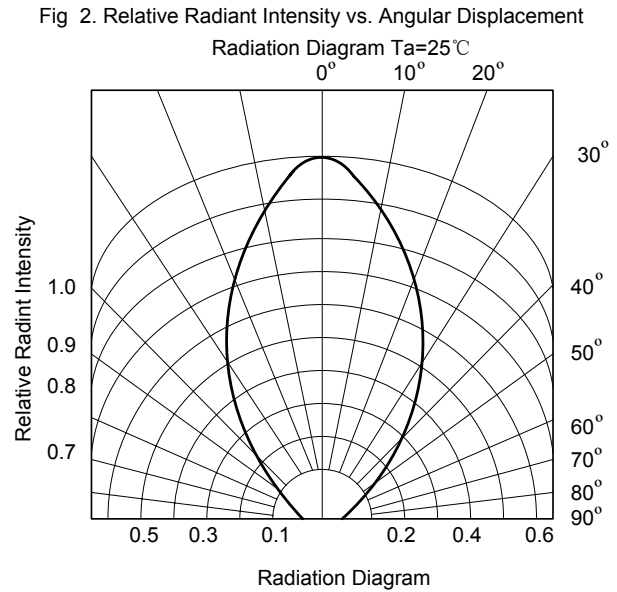
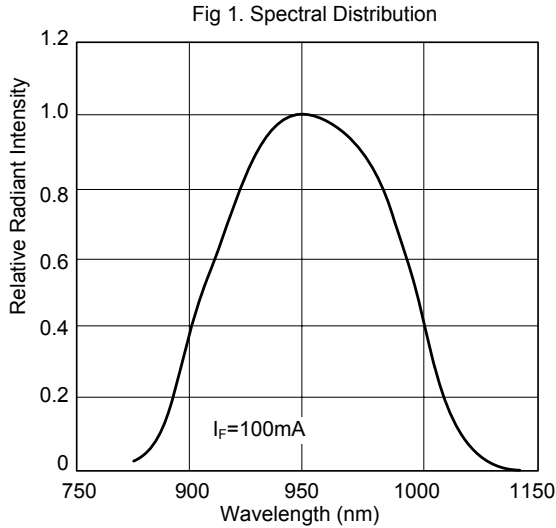
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

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	$2\theta_{1/2}$			60		Deg
Raise Time	t_R	$I_F=20mA$		2		μs
Fall Time	t_F	$I_F=20mA$		1		μs
Luminous Intensity	I_e	$I_F=100mA,$ $t_p=20ms$		12		mW/sr
				15		

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



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