

LIR05AF-30

LIGHT EMITTING DIODE

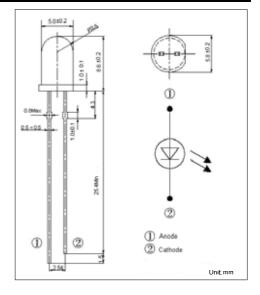


DESCRIPTION

UTC **LIR05AF-30** is a high intensity infrared emitting diode, molded in a water clear plastic package.

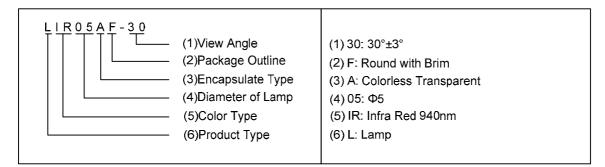
APPLICATIONS

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



ORDERING INFORMATION

O	rdering Number	
	LIR05AF-30	



■ 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	PD	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	VF	I _F =20mA		1.2	1.45	V
	VF	I _F =200mA		1.42		V
Reverse Current	I _R	V _R =5V			10	μA
Peak Wavelength	λр	I _F =20mA		940		nm
Spectral Radiation Bandwidth	Δλ	I _F =20mA		50		nm
Viewing Angle	201/2			30		Deg
Raise Time	t _R	I _F =20mA		2		μs
Fall Time	t⊢	I _F =20mA		1		μs
Luminous Intensity	le	I _F =100mA,		60		mW/sr
		t _P =20ms		80		



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10[°]

02

Radiation Diagram

0.4

 20°

 30°

 40°

 50°

 60°

70[°]

80°

 90°

0.6

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

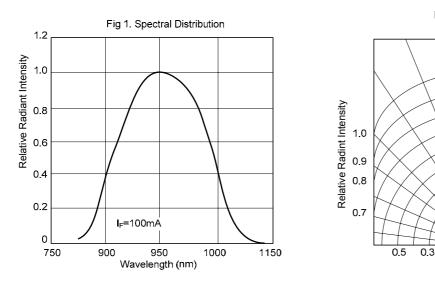


Fig 2. Relative Radiant Intensity vs. Angular Displacement

0°

0.1

Radiation Diagram Ta=25℃

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