UNISONIC TECHNOLOGIES CO., LTD

LIR03AF-30

LIGHT EMITTING DIODE

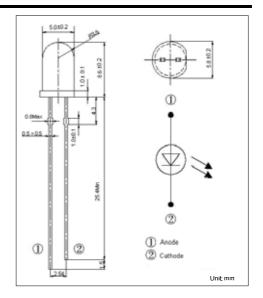
LED LAMP

DESCRIPTION

UTC LIR03AF-30 is a high intensity infrared emitting diode, molded in a water clear plastic package.

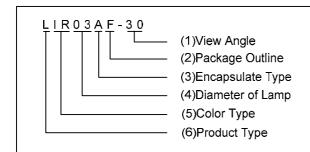
APPLICATIONS

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



ORDERING INFORMATION

Ordering Number LIR03AF-30



- (1) 30: 30°±3°
- (2) F. Round with Brim
- (3) A: Colorless Transparent
- (4) 03: Ф3
- (5) IR: Infra Red 940nm
- (6) L: Lamp

www.unisonic.com.tw 1 of 3 QW-R125-009.A

■ ABSOLUTE MAXIMUM RATINGS (Ta=25)

PARAMETER	SYMBOL	RATINGS	UNIT
Reverse Voltage	V_R	5	V
Forward Current	I _F	20	mA
Peak Forward Current (Pulse Test)	I _{FM}	1000	mA
Power Dissipation	P_D	150	mW
Operation Temperature	T _{OPR}	-30 ~ 65	
Storage Temperature	T _{STG}	-40 ~ 80	

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	1.1		1.3	V
	V_{F}	I _F =200mA	1.3		1.5	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		45		nm
Viewing Angle	201/2			30		deg
Raise Time	t _R	I _F =20mA		2		μs
Fall Time	t _F	I _F =20mA		1		μs
Luminous Intensity	le	I _F =100mA, t _p =20ms	50		100	mW/sr

■ TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

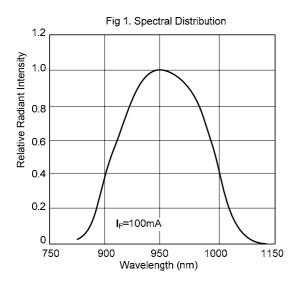
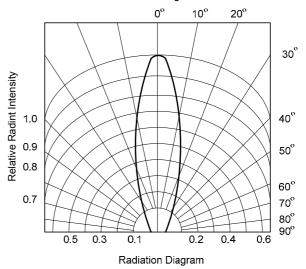


Fig 2. Relative Radiant Intensity vs. Angular Displacement Radiation Diagram Ta=25℃



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