UNISONIC TECHNOLOGIES CO., LTD

LIR03AF-60

LIGHT EMITTING DIODE

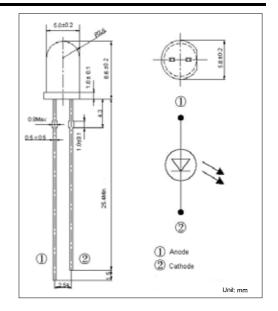
LED LAMP

DESCRIPTION

UTC LIR03AF-60 is a high intensity infrared emitting diode, molded in a water clear plastic package.

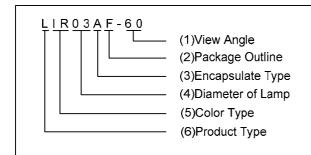
APPLICATIONS

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



ORDERING INFORMATION

Ordering Number LIR03AF-60



- (1) 60: 60°±3°
- (2) F: Round with Brim
- (3) A: Colorless Transparent
- (4) 03: ФЗ
- (5) IR: Infra Red 940nm
- (6) L: Lamp

www.unisonic.com.tw 1 of 3 QW-R125-010.A

■ ABSOLUTE MAXIMUM RATINGS (Ta=25)

PARAMETER	SYMBOL	RATINGS	UNIT
Reverse Voltage	V_R	5	V
Forward Current	l _F	20	mA
Peak Forward Current (Pulse width≤100usec. Time Cycle=10msec)	I _{FM}	1000	mA
Power Dissipation	P_{D}	150	mW
Operation Temperature	T _{OPR}	-35~+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		1.17		V
	V_{F}	I _F =200mA		1.4		V
Reverse Current	I_R	V _R =5V	0		10	μΑ
Peak Wavelength	λр	I _F =20mA		940		nm
Spectral Radiation Bandwidth	Δλ	I _F =20mA		45		nm
Viewing Angle	2θ1/2			60		deg
Raise Time	t_R	I _F =20mA		2		μs
Fall Time	t_{F}	I _F =20mA		1		μs
Radiant Intensity	le	I _F =100mA, t _P =20ms	20		30	mW/sr

■ TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

Fig 1. Spectral Distribution

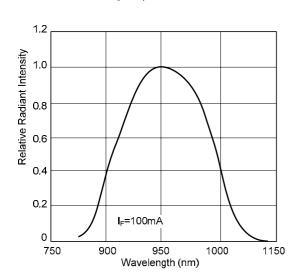
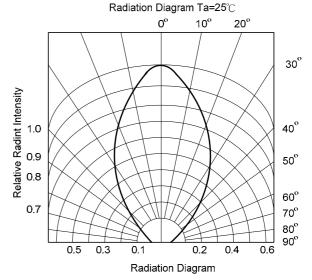


Fig 2. Relative Radiant Intensity vs. Angular Displacement



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