3mm Round Type Infrared LED





Description

THE LIR034 is high intensity gallium arsenide infrared emitting diodes encapsulated in blue transparent or water clear plastic package in T-1 or T-13/4 individually.

Features

· Hi-Radiant intensity

Low-Average degradation

· Dice Material: GaAlAs /GaAs

· Emitted Colour : Invisible

· Lens Colour : Blue Transparent

Application

- · Remote Control
- · Smoke Detector
- · Photo Detector
- · Burglar Alarm
- Computer I/O Peripheral
- · Automatic Control System
- · Industrial Use

Electrical Characteristics

Parameter	Symbol	Min	Тур	Max	Unit	Test
Aperture Radiant incidence	Ee	0.2	0.35	-	mW/cm ²	If=20mA
Radiant intensity	le	8	10	-	mW/sr	If=20mA
Peak Emission Wavelength	λр	-	940	-	nm	If=20mA
Forward Voltage	VF	-	1.2	1.6	V	lf=20mA
Spectral Line Half-Width	Δλ	-	50	-	nm	If=20mA
Reverse Current	IR	-	0	100	uA	VR=5V
Viewing Angle	201/2	-	36	-	Degree	
Rise Time	TR	-	-	600	nS	-
Fall Time	TF	-	-	600	nS	-

Absolute Maximum Rating

Parameter	Max. Rating	Unit	
Power Dissipation	100	mW	
Peak Forward Current(Pulse width = 10us 1% duty cycle)	1	Α	
Continuous Forward Current	50	mA	
Reverse Voltage	5	V	
Operating Temperature Range	-40°C to +85°C		
Storage Temperature Range	-40°C to +100°C		
Lead Soldering Temperature (1/16 inch from Body for 5sec)	260°C		

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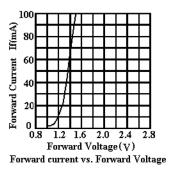


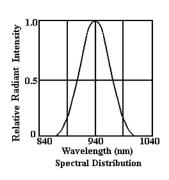
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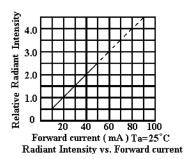


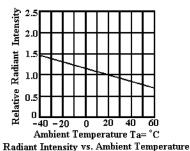
Typical Electro-Optical Characteristics Curves

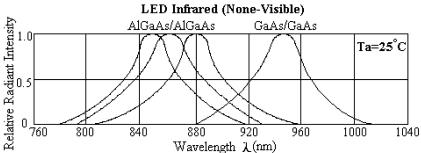
Infrared (GaAs \(\lambda\)P=940nm)











Relative Intensity Vs. Wavelength

0.7MAX. 26.0MIN.

Dimensions : Millimetres Tolerance : ±0.25mm

Part Number Table

Description	Part Number		
3mm Round Type Infrared, Blue LED	LIR034		

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