5mm Round Type Infrared LED

multicomp



Description

THE LIR053 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

Electrical Characteristics

Application

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

Parameter	Symbol	Min	Тур	Мах	Unit	Test
Aperture Radiant incidence	Ee	0.2	0.45	-	mW/cm ²	lf=20mA
Radiant intensity	le	10	14	-	mW/sr	lf=20mA
Peak Emission Wavelength	λρ	-	940	-	nm	lf=20mA
Forward Voltage	VF	-	1.2	1.4	V	lf=20mA
Spectral Line Half-Width	Δλ	-	50	-	nm	lf=20mA
Reverse Current	IR	-	0	100	uA	VR=5V
Viewing Angle	2⊖1/2	-	16	-	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	A
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	

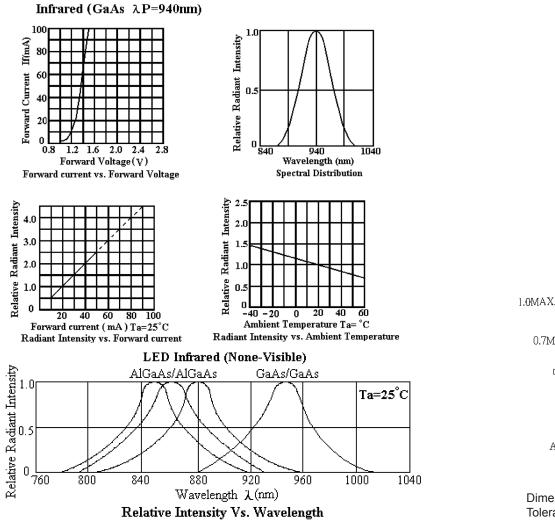
www.element14.com www.farnell.com www.newark.com

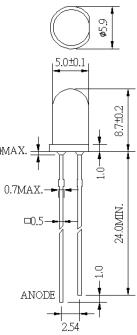


5mm Round Type Infrared LED

multicomp

Typical Electro-Optical Characteristics Curves





Dimensions : Millimetres Tolerance : ±0.25mm

Part Number Table

Description	Part Number	
5mm Round Type Infrared, Blue LED	LIR053	

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com

