5mm Round Type Infrared LED

MODEL NO: IE-5IR3BT2-9

Features :

- High radiant intensity
- Peak wavelength λP=940nm
- High reliability
- 2.54mm Lead spacing

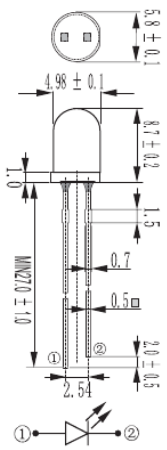
Applications :

- Free air transmission system
- Optoelectronic switch
- Floppy disk drive
- Infrared applied system
- Smoke detector

Description :

- Infrared Emitting Diode IE-5IR3BT2-9 is a high intensity diode, molded in a water clear plastic package.
- The device is spectrally matched with phototransistor,photodiode and infrared receiver module.

Package Dimensions:



Notes :

1. All dimensions are in millimeter.
2. Tolerance unless dimension ± 0.25mm.
3. The long leg is a LED anode.
4. Lead spacing is measured where the leads emerge from the packing.

Absolute Maximum Ratings (Ta=25℃):

Parameter	Symbol	Rating	Unit	Remarks
Forward Current	I_F	30	mA	——
Peak Forward Current	I_{FP}	100	A	1/10 Duty Cycle
Reverse Voltage	V_R	5	V	——
Operating Temperature	T_{Opr}	-25~ +85	℃	——
Storage Temperature	T_{Stg}	-30~ +100	℃	——
Soldering Temperature	T_{Sol}	260	℃	<5 seconds
Power Dissipation	Pd	150	mW	

Electronic Optical Characteristics : (Ta=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Radiant Intensity	Ee	8	16	——	mW/sr	I_F=20mA
		——	95	——		I_F=100mA, tp=100μs, t_P/T=0.01
		——	750	——		I_F=1A, tp=100μs, t_P/T=0.01
Peak Wavelength	λp	——	940	——	nm	I_F=20mA
Spectral Bandwidth		——	50	——	nm	
Forward Voltage	V_F	1.1	1.3	1.5	V	I_F=20mA
		——	1.4	1.8		I_F=100mA, tp=100μs, t_P/T=0.01
		——	2.6	4.0		I_F=1A, tp=100μs, t_P/T=0.01
Reverse Current	I_R	——	——	10	μA	V_R=5V
View Angle	2θ1/2	——	25°	——	deg	I_F=20mA

Notes : Pb =Pb free Soldering Application, Pb<1000ppm(RoHS-Compliant)