

5mm Infrared LED

Model NO: IR5123C

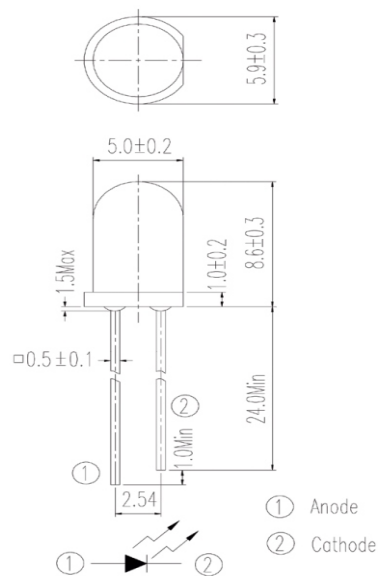
1. Applications:

- *Optoelectronic switch
- *Infrared applied system
- *Free air transmission system
- *Smoke detector

2. Description:

The device is spectrally matched with phototransistor, photodiode and infrared receiver module.

3. Package Dimensions: Unit: mm



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4. Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit	Notice
Continuous forward current	If	50	mA	
Peak forward current	If	1.0	A	
Reverse voltage	V	5	V	
Operating temperature	T	-40~+85	°C	
Storage temperature	T	-40~+85	°C	
Soldering temperature	T	260	°C	t<5S
Power dissipation	P	100	mW	

5. Electronic optical characteristics:

Parameter	Symbol	min	typ	max	Unit	Condition
Rtadiant intensity	Ee	5.6	7.8		mW/sr	I=20mA
			35			I=100mA,tp=100us
			350			I=1A,tp=100us
Peak wavelength	λ_p		940		nm	I=20mA
Spectral bandwidth	$\Delta \lambda$		45		nm	I=20mA
Forward voltage	V		1.2	1.5	V	I=20mA
			1.4	1.8	V	I=100mA,tp=100us
			2.6	4.0	V	I=1A,tp=100us
Reverse current	I			10	uA	V=5V
View angle	$2\theta_{1/2}$		20		deg	I=20mA

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6. Typical electrical/optical/characteristics curves

