

### IR5311

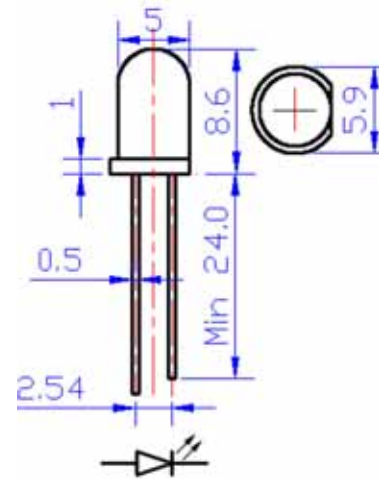
**GENERAL:**

IR5311C is a high intensity, reliability infrared emitting diode. Its emitting angle is 45 degree with 5mm diameter. It is widely used as infrared transmission in instrument, appliance, optoswitch, optoelectronic converting equipment, television, airconditioner and VRT's remote controller.

Package Dimensions  
Unit: ( mm )

Absolute Maxmum Ratings ( Ta=25 )

Parament	Symbol	Rating	Unit
Power dissipation	Pd	100	mW
Forward current	IF	50	mA
Peak Forward Current ( Pulse Width 100uS Duty 1% )	IFP	1	A
Reverse voltage	VR	5	V
Operating temperature	Topr	-20 ~ +85	
Storage temperature	Tstg	-30 ~ +85	
* Soldering temperature	Tsol	260	



\*Soldering time: 5s max. Soldering position: at least 1.5mm from the base of the package.

Electro-Optical Characteristics ( Ta=25 )

Parament	Symbol	Test Condition	Min.	Typ.	Max	Unit
Radiant Intensity	Ee	IF=20 mA	7.8	10	-	mW/sr
		IF=100 mA, tp=100 us, tp/T=0.01	-	45	-	
		IF=1 A, tp=100 us, tp/T=0.01	-	450	-	
Peak Wavelength	P	IF=20 mA	-	940	-	nm
Spectral Bandwidth		IF=20 mA	-	45	-	nm
Forward Voltage	VF	IF=20 mA	-	1.2	1.5	V
		IF=100 mA, tp=100 us, tp/T=0.01	-	1.4	1.85	
		IF=1 A, tp=100 us, tp/T=0.01	-	2.6	4.0	
Reverse Current	IR	VR=5V	-	-	10	uA
Emitting Angle	2 1/2	IF=20 mA	-	45	-	deg.
Emitting Distance	D	IF=20 mA	-	15	-	m