

## **Digital Intelligent Pyroelectric Infrared Sensor BS612**

## Overview

Senba Pyroelectric Infrared Sensors with high sensitivity, low noise and reliable performance. We have our own research and development department, with international technology and Hybrid IC technique expertise developed more than 15 years. The goods come standard with enhanced immunity to RFI (Radio Frequency Interference) and 2.4G high frequency interference. Senba PIR sensor support delay time, sensitivity adjustable, lighting adjustable.

## 1.Maximum Ratings

Characteristics	Symbol	Min. Value	Max. Value	Unit	Remarks
Supply Voltage	VDD	-0.3	3.6	V	
Working Temperature	TST	-20	85	°C	
Max.current for pin	Into	-100	100	mA	
Storage Temperature	TST	-40	125	°C	

## 2. Working Conditions (T=25°C, Vdd=3V, Except other requirements)

Characteristics	Symbol	Min.	Туре	Max.	Unit	Remarks
Supply Voltage	V <sub>DD</sub>	2.0	3	3.3	V	IR=0.5mA

Working Current	I <sub>DD</sub>	9	9.5	11	μΑ		
Sensitivity	V <sub>SENS</sub>	90		2000	μV		
Output REL							
Output Low Current	I <sub>OL</sub>	10			mA	V <sub>OL</sub> <1V	
Output High Current	I <sub>OH</sub>			-10	mA	$V_{OL}$ >( $V_{DD}$ -1 $V$ )	
Lock time	T <sub>OL</sub>		2		S		
On-time	Тон	2		4793	S		
SENS/ONTIME							
Input voltage		0		V <sub>DD</sub>	V	0V to VDD/2	
Input Bias Current		-1		1	μΑ		
OEN							
Input Low Voltage	V <sub>IL</sub>	0.8V-1.2VEnable area		0.8	Vdd		
Input High Voltage	V <sub>IH</sub>	1.2			Vdd		
Input Current	I	-1		1	μΑ	$V_{SS} < V_{IN} < V_{DD}$	



