

#### 6pins Digital Passive 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.

## Free Quote

- Schmidt REL output
- Low voltage, low power consumption, instantaneous settling after power up

## 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	$V_{DD}$	2.0	3	3.3	V	IR=0.5mA

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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 <sub>SS</sub> <v<sub>IN<v<sub>DD</v<sub></v<sub>



