

To-Type SMD Programmable AD Pyroelectric Infrared Sensors

S23- S340R

V1.

1.

1.1

ISO14001

ISO14001

ISO 9001

ISO

- " ISO 9001"

1.2

ROHS

ROHS

"
ROHS

2011/65/EC

1.3

1.3.1

1.3.2

MCU

IC

PIR

MCU

S23-S340R

MCU

MCU

PIR

14

2.

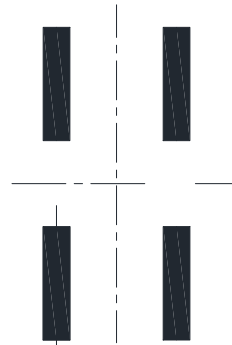
3.2

SMD

3.3

USB

3.4



1

±

(unit): mm

0 = 1 =

7) ADC

ADC	ADC	:
PI R	BFP = 0	
PI R	LPF = 1	
= 2		
= 3		

“ 0” “ 1”

8)

9

1= 0=

3.7.3

SERI N

SERI N

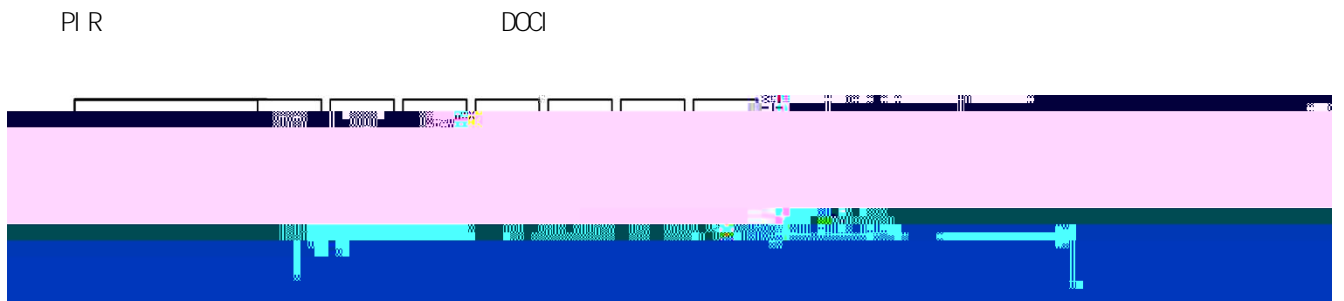
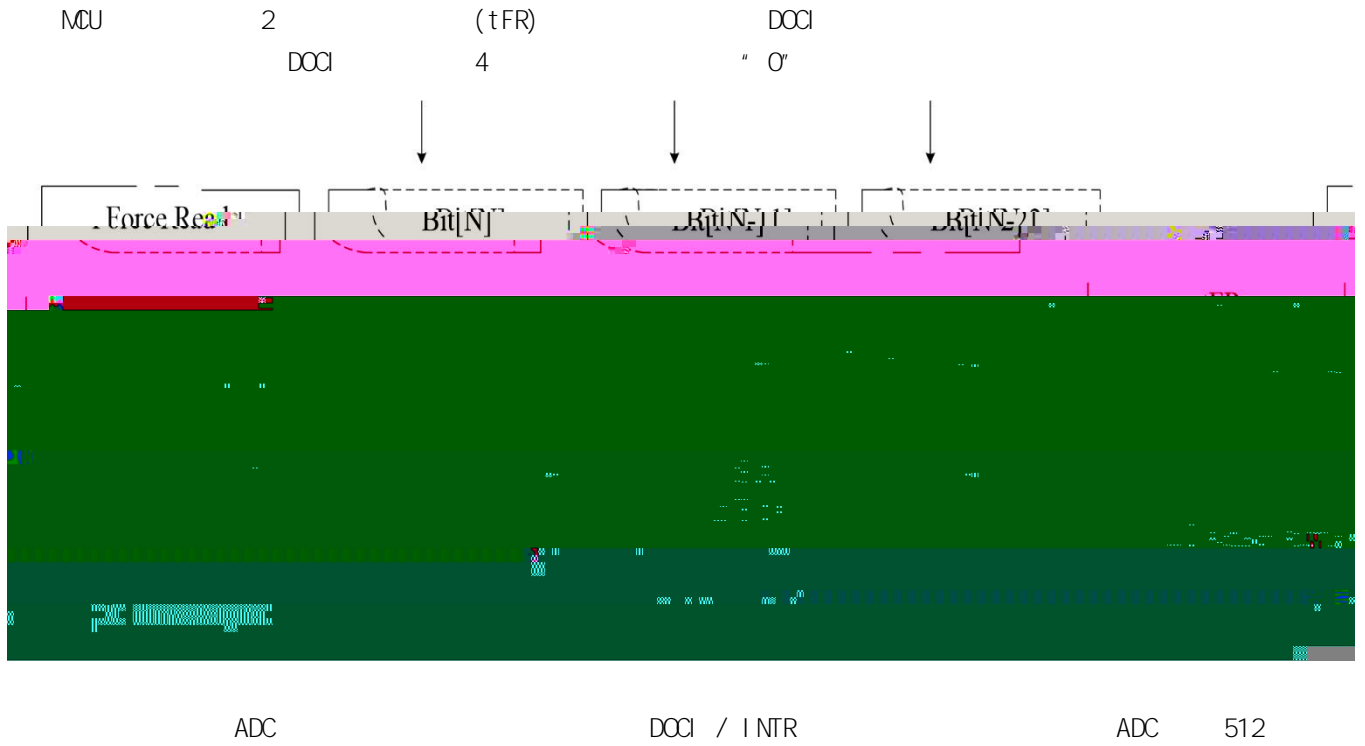
0 1

(0/1)



3.7.4

DOCI



[6: 5]	[1: 0] ADC	0 = PI R (HPF) 1 = PI R (LPF)
[4: 1]		2 = 3 =
[0]		1= 0=

3.8

3.8.1 PI R

1)

$$VPI R = (ADC_out [6:5] - ADC_offset) * 6.5\mu V$$

2)

$$VPI R = ADC_out [6:5] * 6.5\mu V$$

3.8.2

$$VDD = (ADC_out [6:5] - ADC_offset) * 650\mu V$$

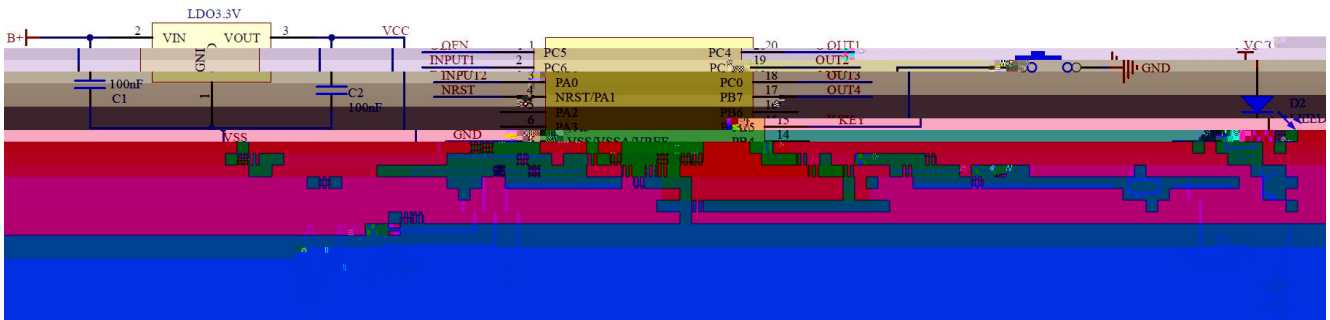
3.8.3

$$ADC_offset(Tcal) = Tcal + (ADC_out - ADC_offset(Tcal)) / 80 * count / K$$

$$ADC_offset @ VIN = 0 = 2^{13}$$

$$ADC_offset(Tcal) = ADC = 8200@300k$$

4.



7.1.6

SO₂

Cl₂, NO_x

7.1.7

72h

40± 10%RH

7.1.8

3

7.2

7.2.1

7.2.1.1

7.2.1.2

7.2.1.3

7.2.1.4

1

SO₂ Cl₂, NO_x

2

3

4

5

6

7

8

7.2.2

1

2

3

4

5 *

6

7

8

7.3

7.3.1

7

7.3.2

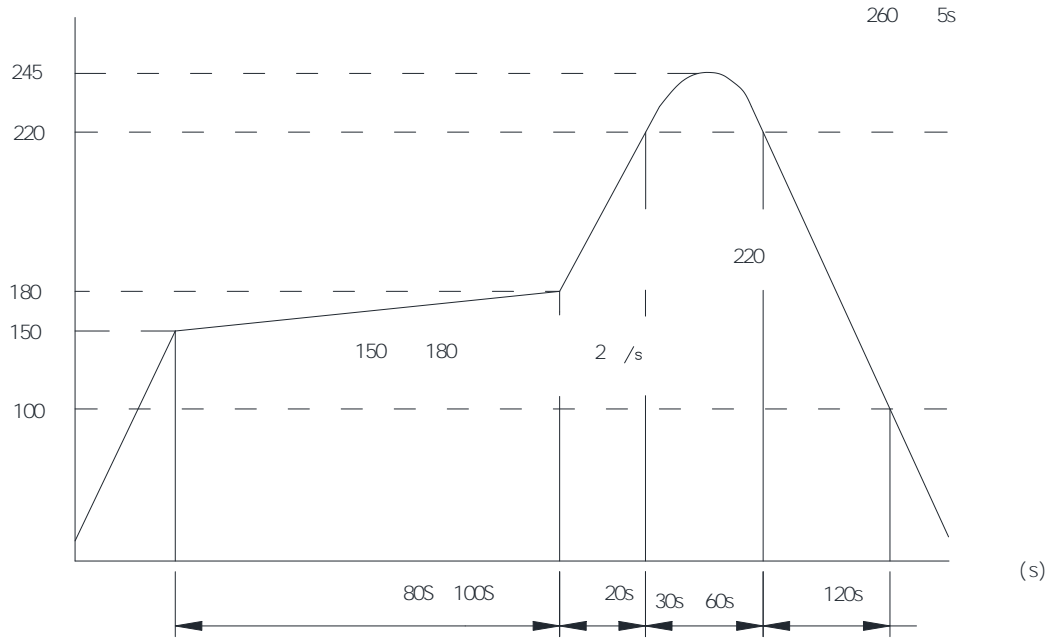
PI R

PI R

3

7.3.3

7.3.4



1

2 *

3 *

" "

4 *