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SV-DIP6-010D

- ~
- μ
-
- 2
- ~
-

3.

-
-
-
-

4.

1

		-40	+105	°C
		-0.3	+3.6	V
IO		-0.3	+3.6	V
ESD		-2	+2	kV
			30	kPa

5.

2 Vs=3.3VDC T_A=25°C

	TA				-20	25	85	°C
					0		65	°C
	P				0		10	kPa
	VDD				1.8	3.3	3.6	V
1 Hz	Idd		OSR_P	OSR_T				µA
			1024X	2048X		10		
			2048X			14		
			4096X			19		
			8192X			28		
			16384X			46		
	Iddsbm	@25				0.1		
/	Tc		OSR_P	OSR_T				ms
			1024X	2048X		13		
			2048X			19		
			4096X			31		
			8192X			56		
			16384X			105		
ADC						24		Bit
						16		Bit
	P_A	0-65°C				1		%F.S
	T_A	0~65°C				1		°C
	fI²C	I²C					3.4	MHz

6.

2

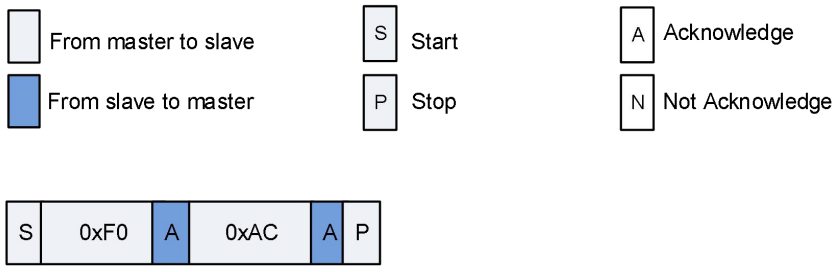
2

6.1

I²C

7bits I²C 0x78

6.2 I²C



0xF0 7bits I²C 0x78 1bit 0

6.3 I²C

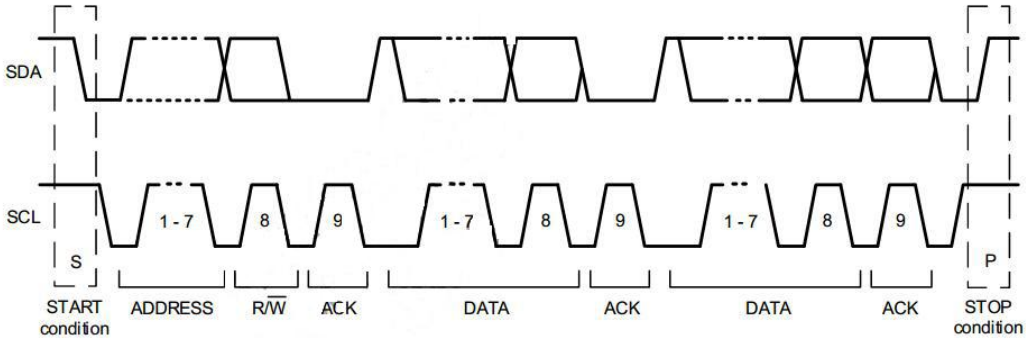
0xF1 7bits I²C 0x78 1bit 1

6 1 3 2

S	0XF1	A	Status	A	BridgeDat [23:16]	A	BridgeDat [15:8]	A	BridgeDat [7:0]	A	TempDat [15:8]	A	TempDat [7:0]	N	P

1

6.4 I²C



2 I2C

- START Condition

SDA SCL start condition,

- Address Bits

7-bits 0x78

- Read/Write Direction Bit

0 1

SDA

- Data Byte

SDA

- Acknowledge or Not Acknowledge Bit

SDA SDA

SDA

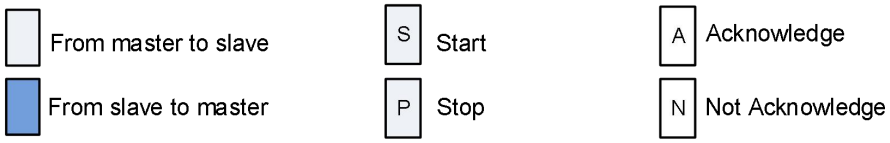
➢ Stop Condition

SDA SCL I^2C

7.

0xAC 0xAC

7.1



0xF0 7bits I²C 0x78 1bit 0

7.2

OTP (Address: 0x14) [13:11] OTP(Address: 0x14) [15:14]

IIC

4 0xF1 7bits I²C 0x78 1bit 1

6 1 3 2

S	0XF1	A	Status	A	BridgeDat [23:16]	A	BridgeDat [15:8]	A	BridgeDat [7:0]	A	TempDat [15:8]	A	TempDat [7:0]	N	P

4 I²C 5

7.4

0x04 0x9B 0xB0 0xC5 0x56 0xAA

0x04 Bit5 1 I²C Bit5 0

0x9B 0xB0 0xC5

0x56 0xAA

0x9B 0xB0 0xC5 10203333,

0Kpa-10Kpa AD

2516582.4~14260633.6 15%AD~85%AD

P2

= 10-0 / 14260633.6-2516582.4 * 10203333-2516582.4 +0 = 6.545 KPa

0x56 0xAA 22186

16 bits

65535

22186/65536*100% = 33.85%

-40 ~150 =(150-(-40))*33.85% - 40 = 24.32

:

$$\boldsymbol{Pressure} = \frac{\mathbf{P_{MAX}} - \mathbf{P_{MIN}}}{\mathbf{D_{MAX}} - \mathbf{D_{MIN}}} \cdot (\mathbf{D_{test}} - \mathbf{D_{MIN}}) + \mathbf{P_{MIN}}$$

Pressure Dtest PMIN

PMAX DMIN DMAX

4 Status

Bit7		0
Bit6	(Power indication)	1 V_{DDB} on 0
Bit5	(Busy indication)	1 I^2C 0 I^2C
Bit4		0
Bit[3]	(Mode Status)	0 NOR mode 1 CMD mode
Bit2	(Memory integrity/error flag)	0 OTP (CRC) 1 (POR) CRC POR
Bit1		0
Bit0		0

7.5 Get_Cal_S

Get_Cal_S (0xB9 ~ 0xBE) Get_Cal (0xAC) ADC

Get_Cal OTP

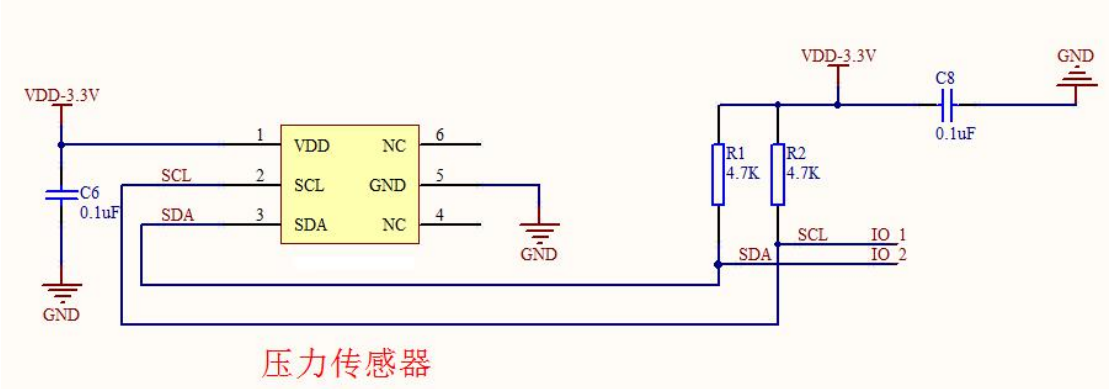
Get_Cal_S OTP

Get_Cal_S

5 Get_Cal_S

Command 0xBX(HEX)	Function	Detail
X [3] Bit	ADC OSR_T	1: 8x
X [2:0] Bit	ADC OSR_P	001: 16384x 100: 2048x 010: 8192x 101: 1024x 011: 4096x 110: 512x

8.

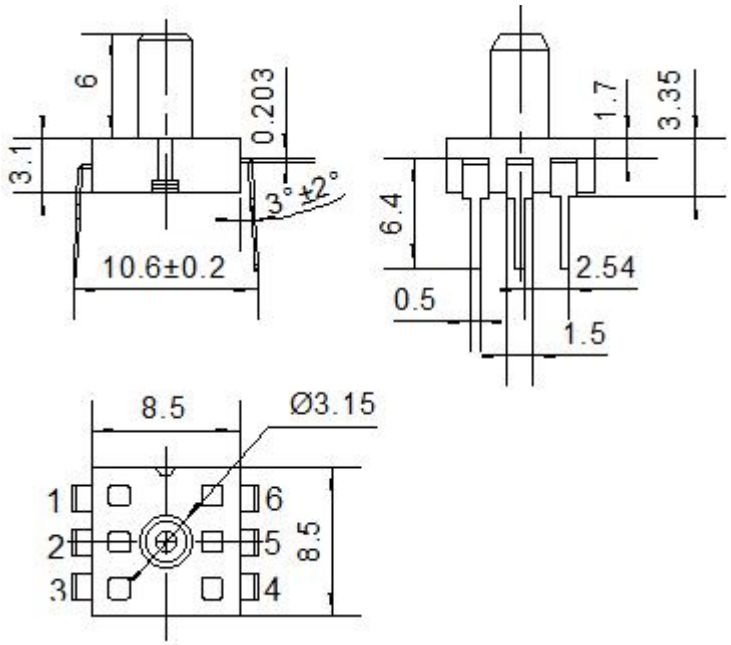


压力传感器

5

9.

9.1

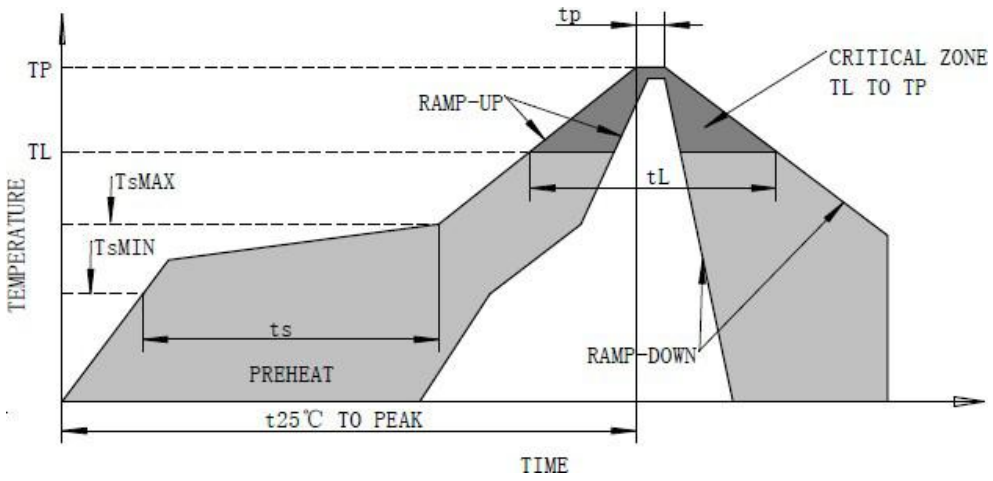


6

6

		2
		2

10.



	3 /
- TsMIN - Tsmax - TsMIN TsMAX Ts	150 200 60 80
- TL - tL	217 60 150
TP	260
TP 5 tP	20 40
	4 /
25	8

11.

		2020-6-18

12.

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