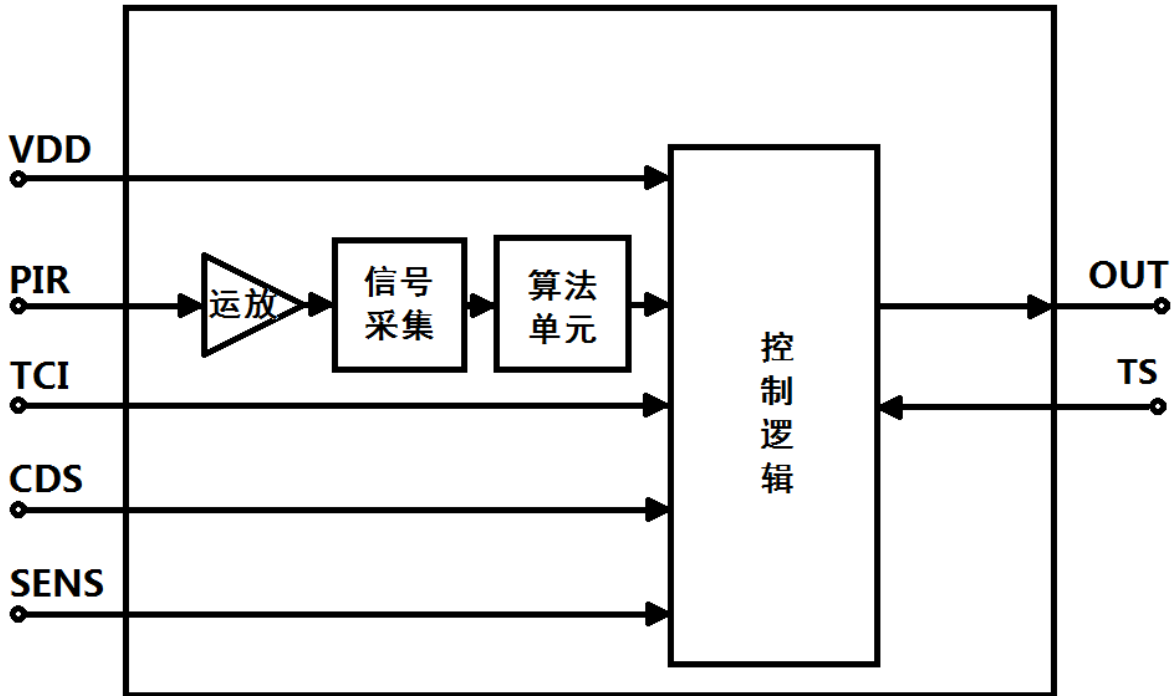
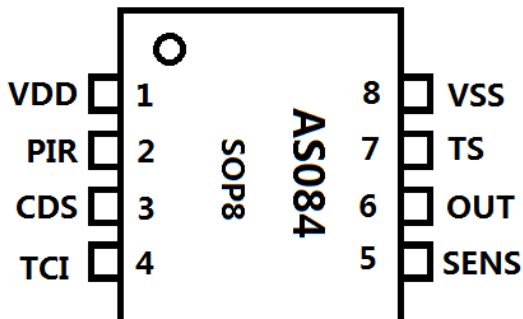


IC

IC



AS084-SD1



IC

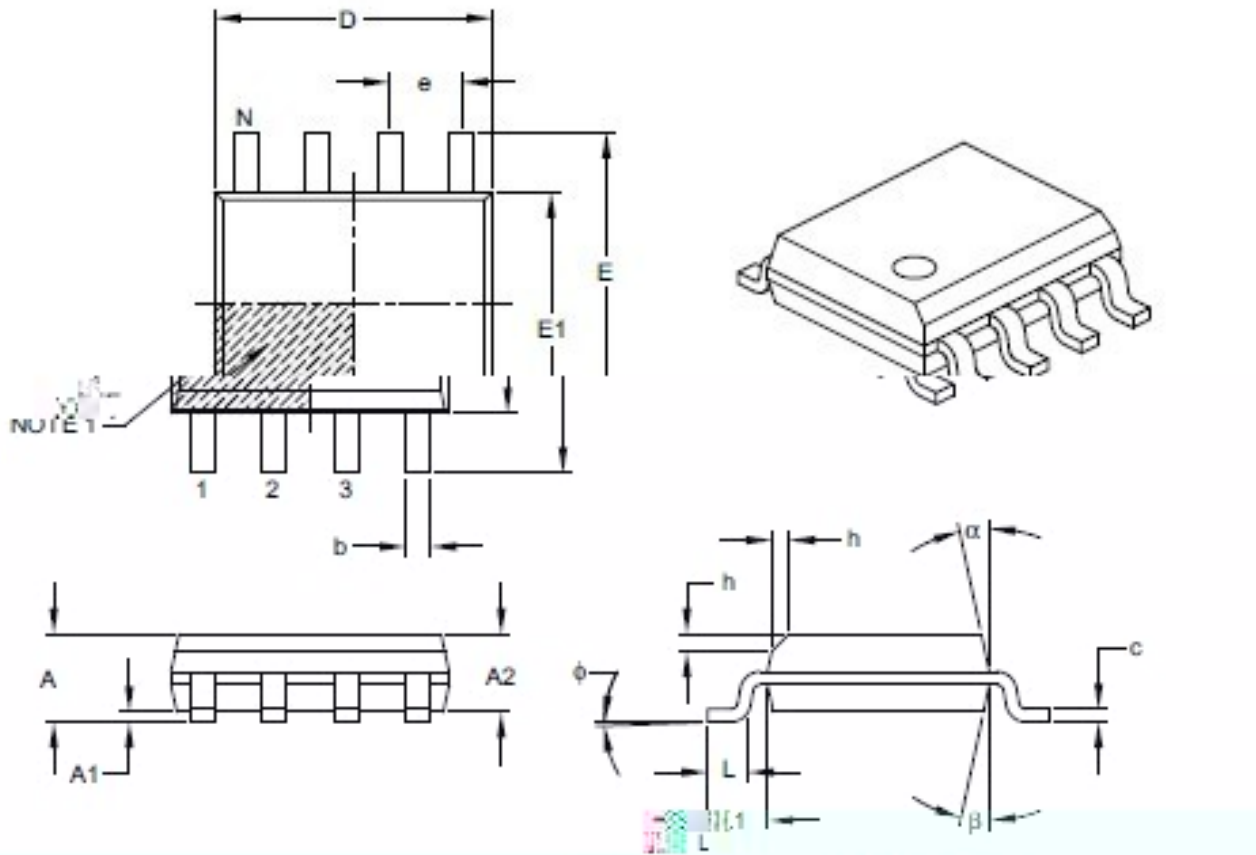
1	VDD	
2	PIR	PIR
3	CDS	CDS 1.0V IC 1.0V IC R2 R2
4	TCI	AS084-SD1
5	SENS	2.4V~2.8V 0V 3.0V
6	OUT	15
7	TS	TCI TS VSS TCI TS 13
8	VSS	

	V _{DD}	2.4	3.3	3.6	V	—
	I _{DD}		195		uA	VDD = 3.3V TS
V _{OUT}	I _{OH}			10	mA	VDD = 3.3V V _{OL} = 0.3V
	Temp.	-40	25	85		—
	Temp.	-65	25	150		—

PIR
AS084-SD1

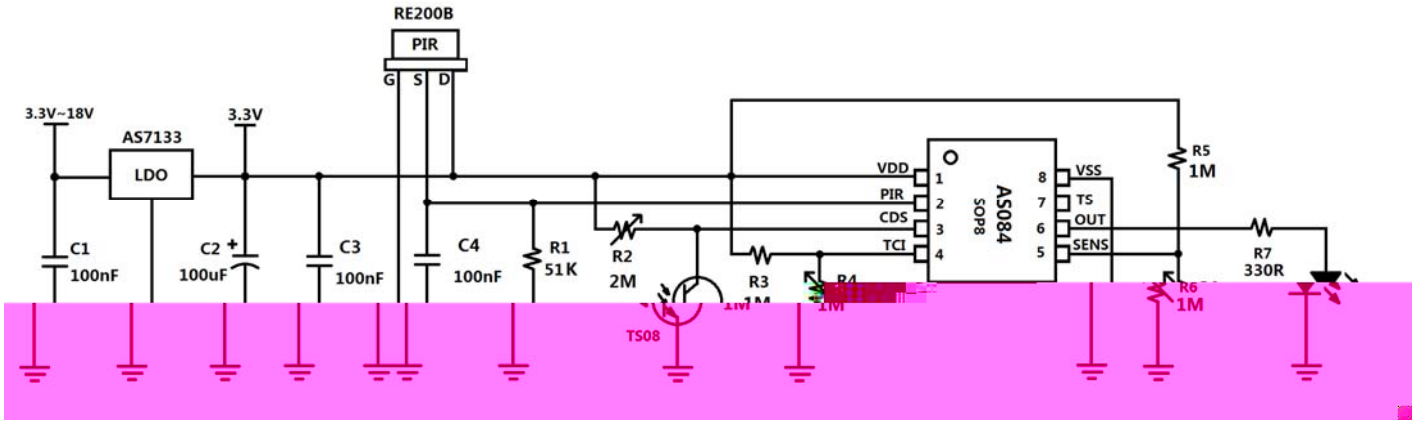
IC

SOP8



Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Number of Pins	N	8		
Pin Pitch	e	1.27 BSC		
Overall Height	A	-	-	1.75
Lead Package Thickness	A2	1.25	-	-
Lead Height	A1	0.10	-	0.25
Overall Width	E	6.00 BSC		
Lead Package Width	E1	3.90 BSC		
Overall Length	D	4.90 BSC		
Lead Length (optional)	h	0.25	-	0.50
Lead Length	L	0.40	-	1.27
Lead Length	L1	1.04 REF		
Lead Angle	ϕ	0°	-	8°
Lead Thickness	c	0.17	-	0.25
Lead Width	b	0.31	-	0.51
Lead Draft Angle Top	α	5°	-	15°
Lead Draft Angle Bottom	β	5°	-	15°

IC



TS

R4

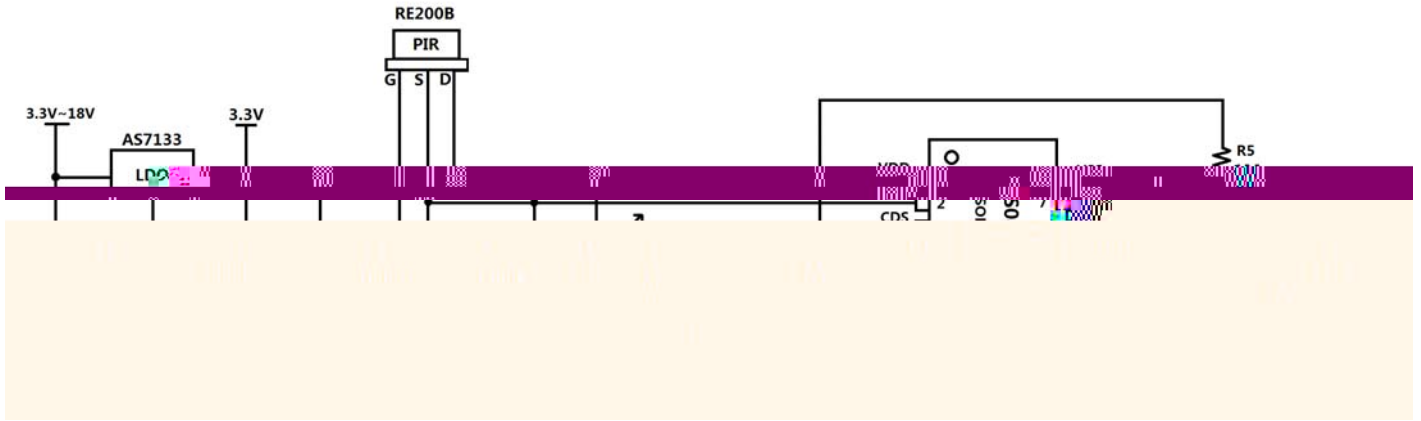
13

R4	Ω	
		1
2M		1
1M		5
910K		10
820K		15
750K		20
680K		30
560K		45
470K		60
390K		90
300K		120
200K		180
100K		300
0		480

VDD 3.3V

PIR
AS084-SD1

IC



TS VSS R4

TCI		TCI	VDD	600	
TCI		TCI	VSS	2	
	T			$RT = R4 * T / 512 - T$	RT
	10	RT	$1M * 10 / 512 - 10$	$= 20K$	

1 PIR SENSER AS084-SD1

2 PCB

3

4