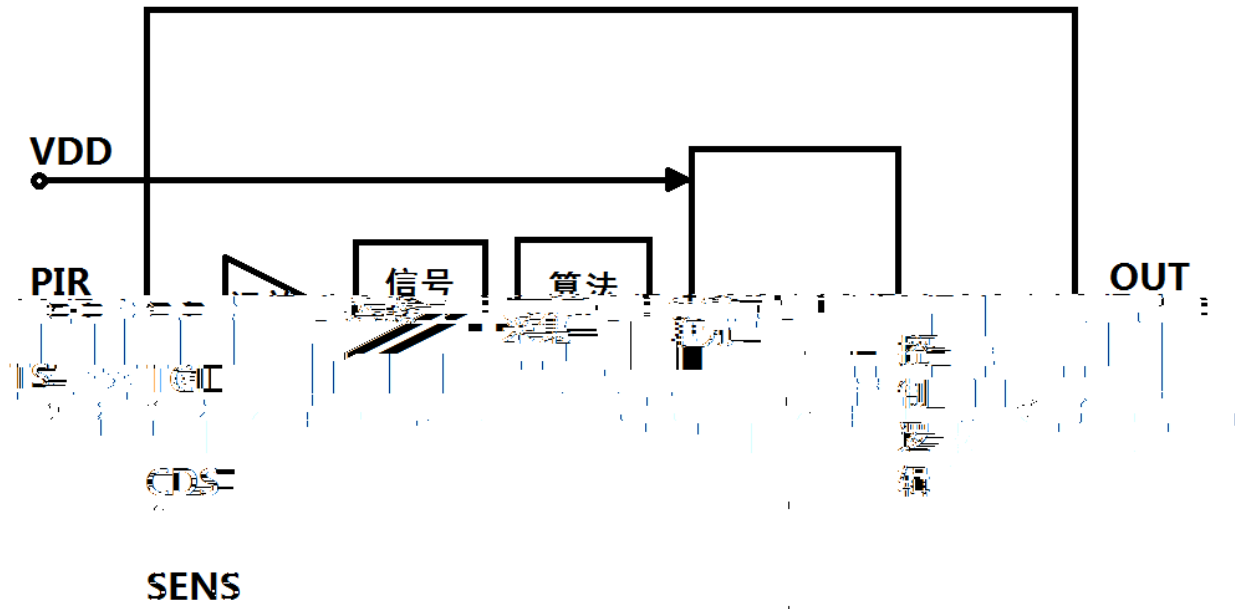


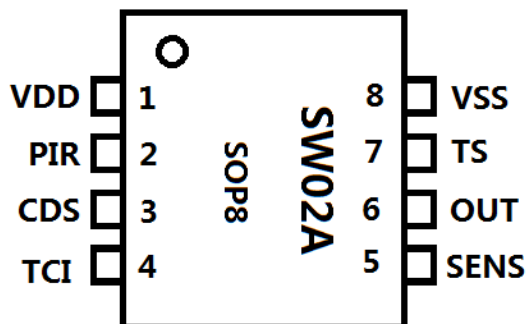
PIR
SW02A

IC

IC



SW02A SOP8



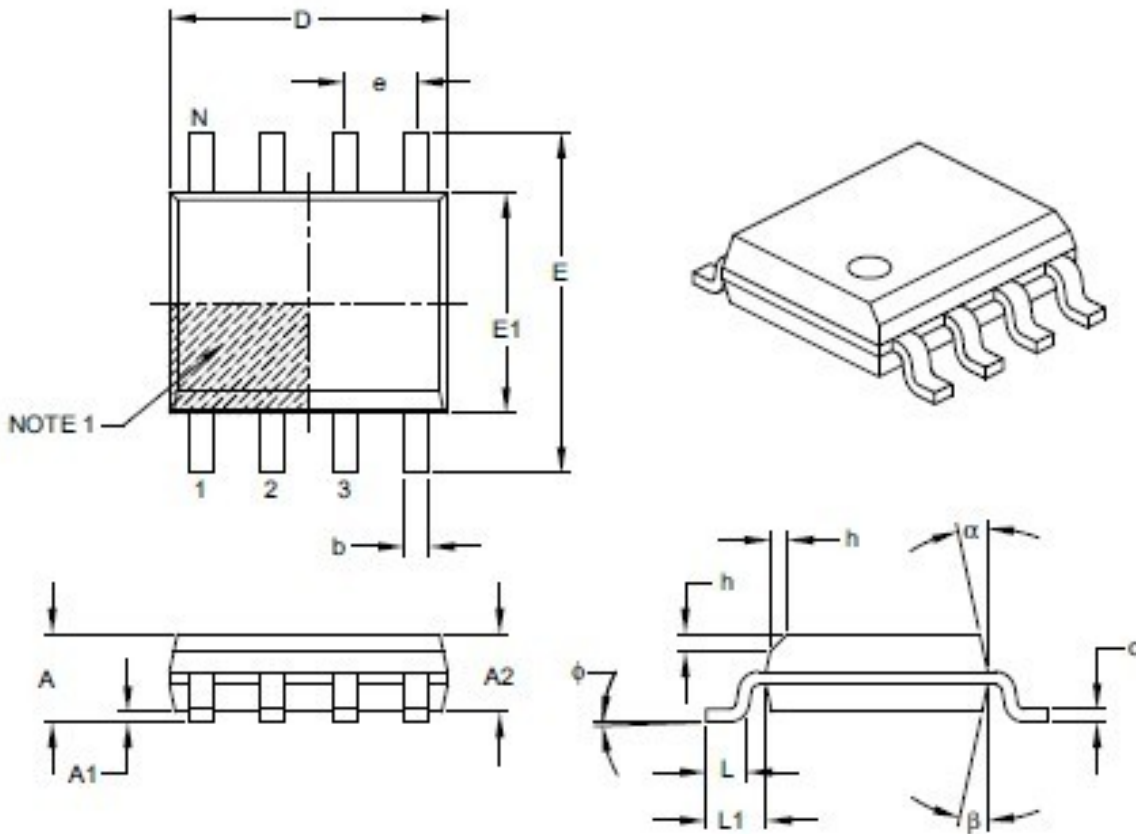
IC

1	VDD	
2	PIR	PIR
3	CDS	CDS 1.0V IC 1.0V IC R2 R2
4	TCI	SW02A
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		—

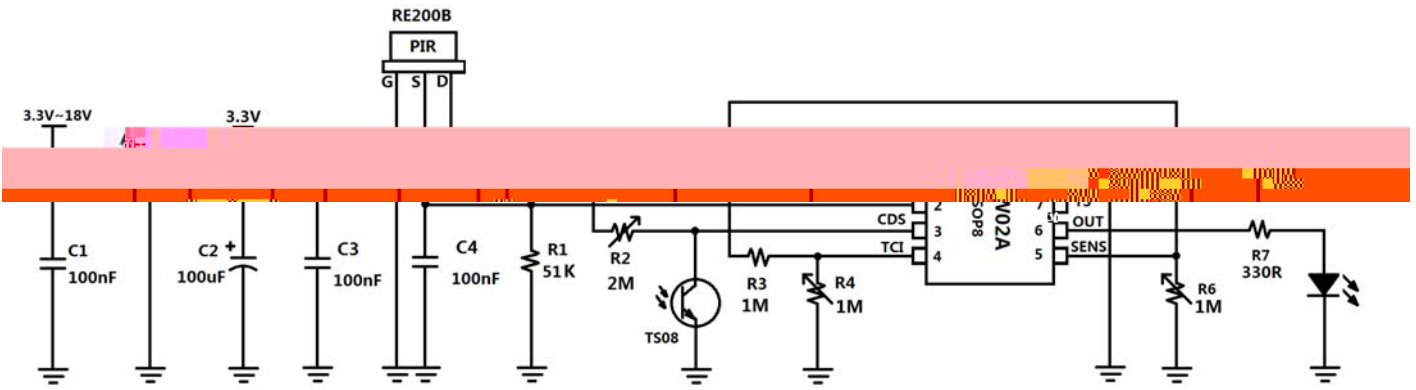
IC

SOP8



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

IC



TS

R4

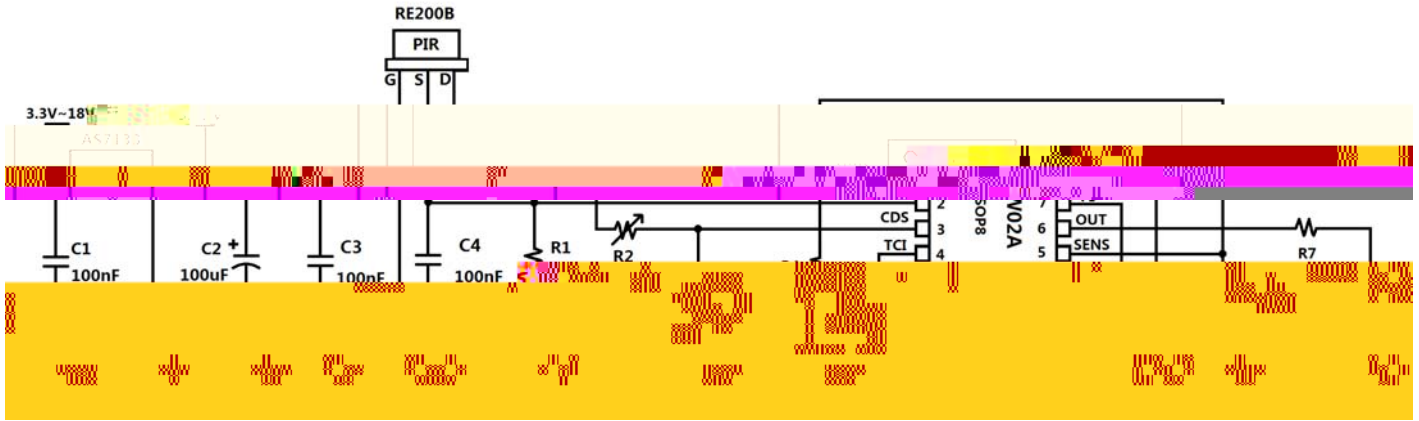
13

R4	
	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

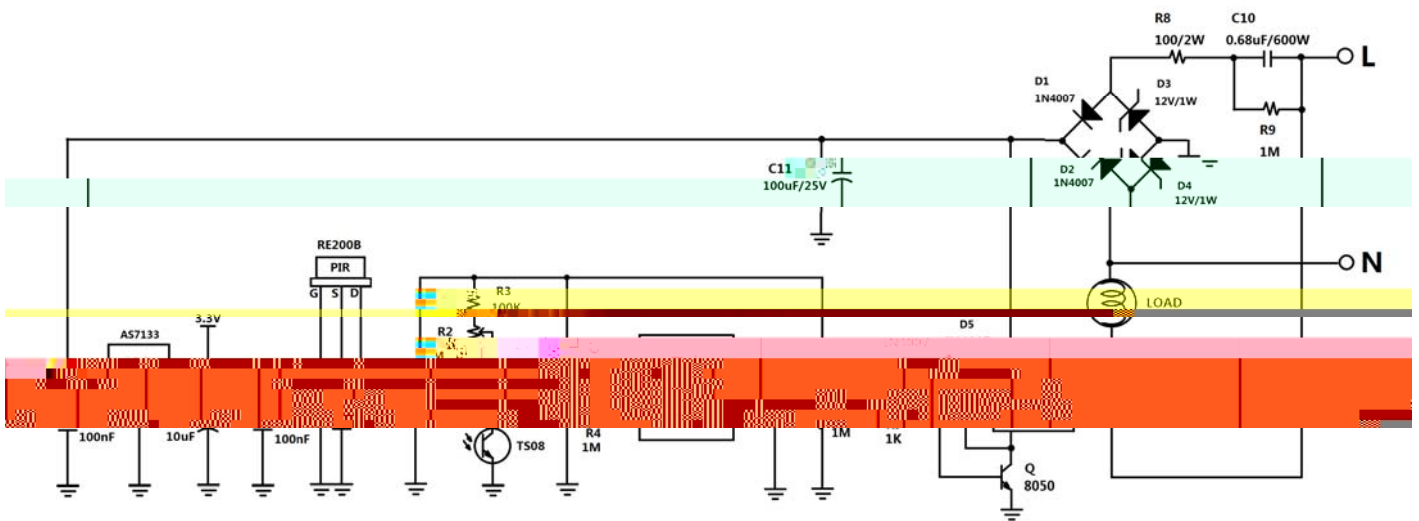
PIR
SW02A

IC



TS VSS R4

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



IC

1 PIR SENSER SW02A

2 PCB PCB

3

4