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SPECIFICATION

1.Product show :

Description	Model	Photo
Pressure sensor of E-cigarette	C6027L-C104-RS	

2.Characteristic :

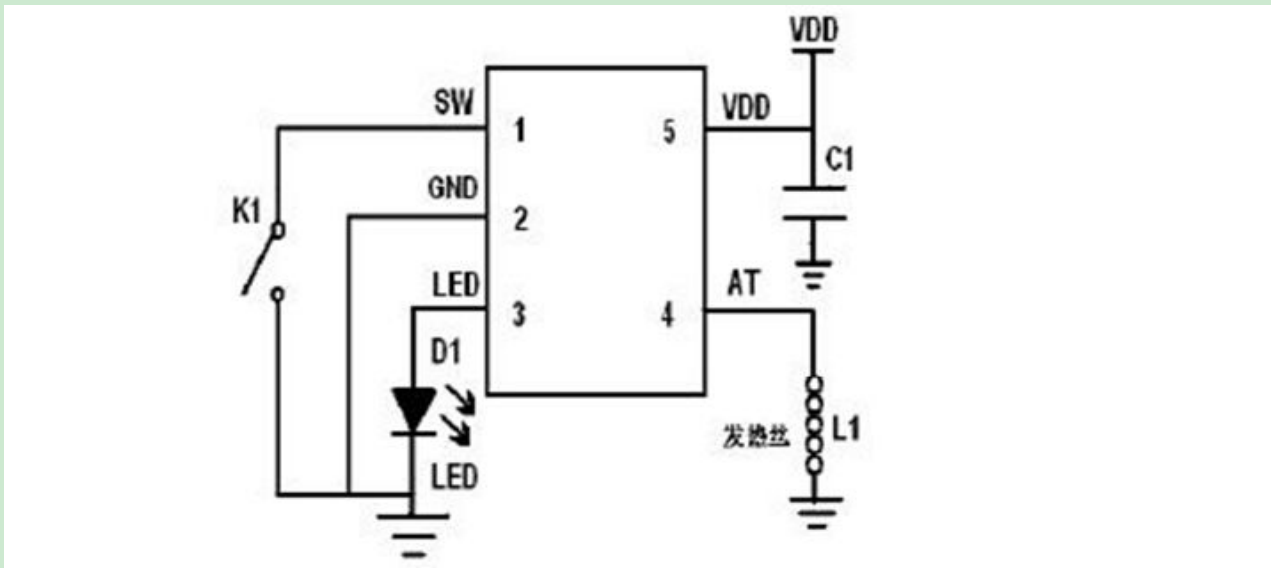
- 1). ASIC design.
- 2). Low quiescent current in Power Saving Mode (<5uA).
- 3).Short Circuit Protection (SCP) .
- 4.) Under voltage lock out (UVLO) .
- 5). Over-temperature protection (OTP) .
- 6). LED working indication.
- 7).Wide charging voltage (4.5-6V) ,superior Rechargeable performance, safe charging process.
- 8). Little measurement error for charging voltage (within 1%).

9). Perfect Battery protection trickle charge mode when battery voltage is lower than 2.7V , quick charge mode when voltage between 2.7V and 4.2V, constant voltage charging at 4.2V.

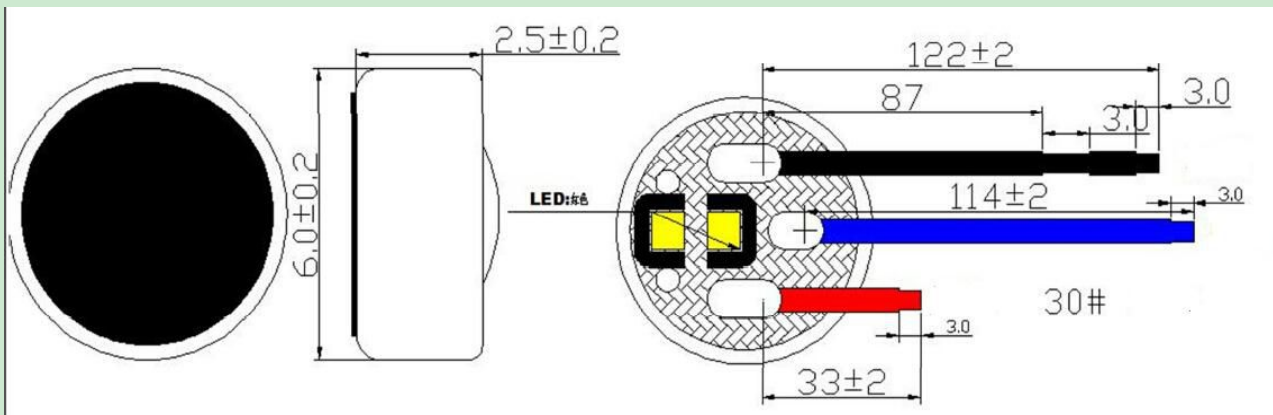
10). Simple periphery circuit, ow cost.

3.Application on electronic cigarette :

Typical application circuit



Encapsulation Model:



4.Limit parameters:

Sign	Parameter	Parameter range	Unit
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V_{DD}	supply voltage	-0.3 to 4.5	V
V_{AT}	load voltage, Charging as a power supply pin	-0.3 to 6	V
V_{SW}	sampling voltage	-0.3 to 4.5	V
V_{LED}	Led voltage	-0.3 to 4.5	V
P_D	Power loss	internally limited	mW
T_{OPR}	operating temperature	-20 to +125	°C
T_{STG}	storage temperature	-40 to +150	°C

Note : Permanent damage to the device may be caused when any of limit parameters is exceeded. The device is not recommended to work over the limit parameter; otherwise the reliability of it will be influenced.

5. Electrical characteristic:

Condition : $V_{DD} = 3.7V, T = 25^{\circ}C$ (Unless specified otherwise)

Sign	parameter	condition	Min.	Typical	Max.	Unit
V_{DD}	input voltage range	DC Input voltage	3.1	3.7	4.2	V
I_Q	quiescent current	power saving mode			3	uA
V_{AT}	Constant voltage output			-		V
	As power supply input end when charging		4.5		6	V
I_{charge}	charging current	$2.7V \leq V_{AT} \leq 4.1V$		120		mA
		$V_{AT} < 2.7V$		40		
R_{dson}	Switching valve on-resistance	$I = 2A$	50	85	100	mohm
F_{osc}	internal clock frequency			33		KHz
F_{BG}	internal voltage reference			1.15		V

I_{LED}	Output Current of LED			10.5		mA
F_{SW}	sampling frequency of SW end	$V_{DD}=4V$,Sucking		9		KHz
V_{UVLO}	Threshold of Low voltage detection			3.1		V
R_L	short-circuit protection				1	Ohm
R_{AT}	Resistance between AT end and Ground	Power driven pipe stop	-		-	Ohm
over-temperature protection				660		
T_{CH}	Over-heat protection during charging			140		°C
T_{SD}	Over-heat protection during working			175		°C
T_{SD_bys}	Overheating protection hysteresis			60		°C

Any questions, please feel free to contact us !