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## SPECIFICATION

### 1.Product show :

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

### 2.Characteristic :

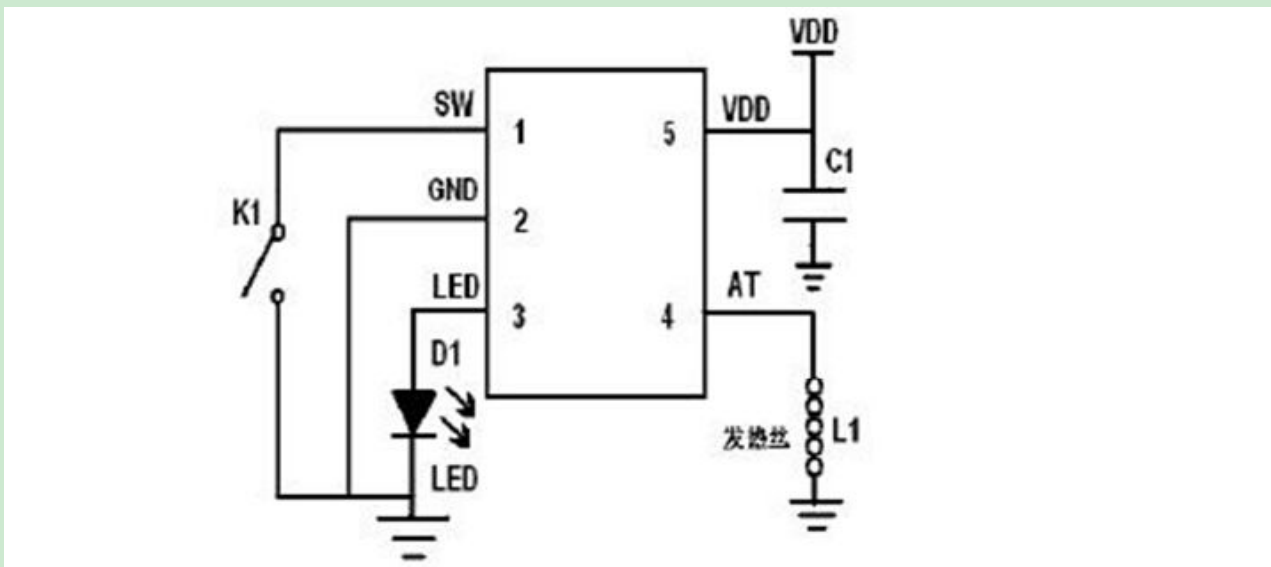
- 1). ASIC design.
- 2). Low quiescent current in Power Saving Mode (<5uA).
- 3).Short Circuit Protection ( SCP ) .
- 4.) Under voltage lock out ( UVLO ) .
- 5). Over-temperature protection ( OTP ) .
- 6). LED working indication.
- 7).Wide charging voltage ( 4.5-6V ) ,superior Rechargeable performance,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

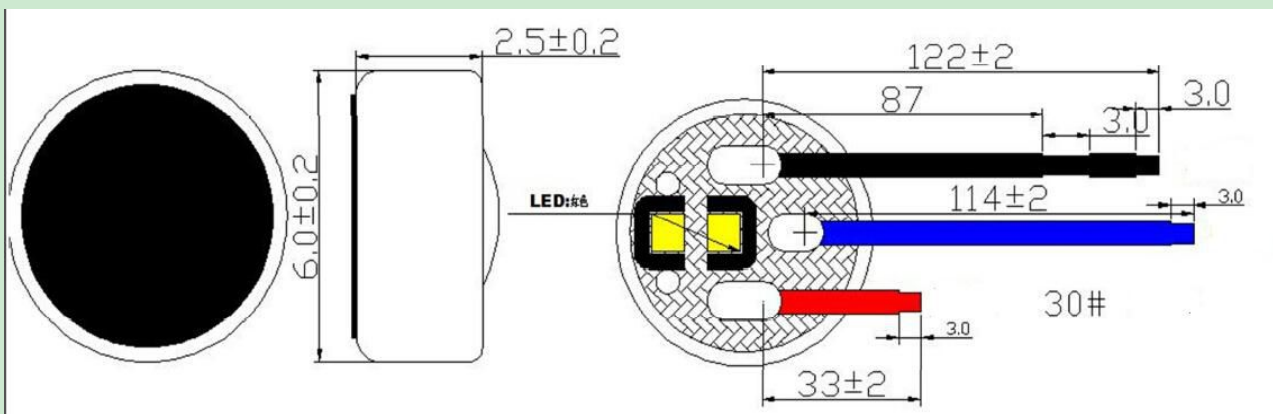
10). Simple periphery circuit, ow cost.

### 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 !