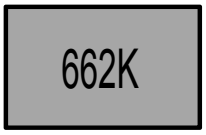
产品特点

最大输出电流：200mA
压差电压：160mV@50mA
最大工作电压：6.5V
输出电压范围：3.3V
高精度：2.5%
极低的静态工作电流：3μA (典型值)
内置过流和短路保护电路
工作温度范围：0℃~ 70℃

应用领域

电池供电系统
无绳电话设备
无线控制系统
便携/手掌式计算机
便携式消费类设备
便携式仪器
汽车电子设备
电压基准源



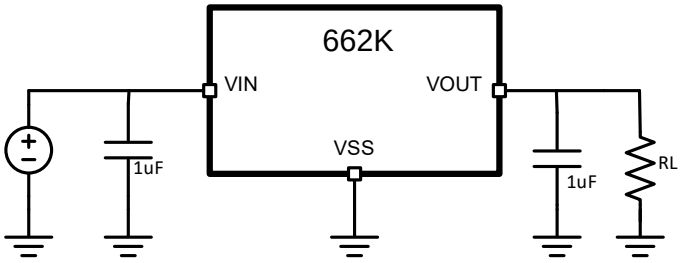


SOT-23

产品描述

662K 是具有高纹波抑制率、低功耗、低 压差，具有过流和短路保护的 CMOS 降压型电压稳压器。这些器件具有很低的静态偏置电流（6.5μA Typ.），它们能在输入、输出电压差极小的情况下提供200mA的输出电流，并且仍能保持良好的调整率。由于输入输出间的电压差很小和静态偏置电流很小，这些器件特别适用于希望延长电池寿命的电池供电类 产品，如计算机、消费类产品和工业设备等。

典型应用

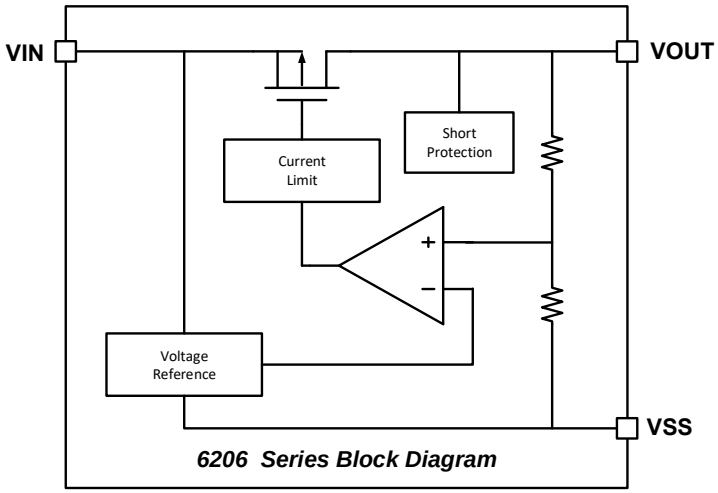


极限参数

(注意：超过这些限制可能会损坏器件。长期暴露在绝对最大额定条件下会影响器件的可靠性。)

项目	符号	极限值	单位
输入电压	V_{IN}	6.5	V
输出电流	I_{OUT}	250	mA
输出电压	V_{OUT}	VSS-0.3~VIN+0.3	V
功　耗	P_d	0.25	W
工作温度	T_{opr}	0~+70	℃
存储温度	T_{stg}	-55~+125	℃

功能框图



6206 Series Block Diagram

电学参数

(V_{INS}=5V,T_A=25℃,除特别指定)

特性	符号	测试条件	最小值	典型值	最大值	单位	测试图
输出电压	V_{OUT}(E)	I_{OUT}=1mA，V_{IN}=5V	3.218	3.3	3.382	V	Fig 1
最大输出电流	I_{OUT} (max)	V_{IN}=4.3V	200			mA	Fig 1
跌落压差	Vdrop1	I_{OUT}=10mA		31		mV	Fig 1
	Vdrop2	I_{OUT}=40mA		121			
静态电流	I_{SS}	V_{IN}=6.5V	3	6.5	9	μA	Fig 2
负载稳定度	ΔV_{OUT}	V_{IN}=4.3V，1mA≤I_{OUT}≤100mA		24		mV	Fig 1
输入稳定度	$\Delta V_{OUT}/(\Delta V_{IN} \cdot V_{OUT})$	I_{OUT} =40mA，4.3V≤V_{IN}≤6V		0.4		%/V	Fig 1
输出电压温度系数	$\Delta V_{OUT}/(\Delta Ta \cdot V_{OUT})$	V_{IN}=4.3V，I_{OUT}=10mA -10℃≤Ta≤70℃		±200		ppm/℃	Fig 1
输入电压	V_{IN}		1.8		6.5	V	Fig 1
保护电流	Ishort	V_{IN}=4.5V ，V_{OUT}=Vss		150		mA	Fig 1

注 ：

1、 V_{OUT} (T)：规定的输出电压；

2、V_{OUT} (E) ：有效输出电压。

3、I_{OUT} (max)：V_{IN}=V_{OUT}(T)+1V，缓慢增加输出电流，当输出电压≤V_{OUT}(E)*95%时的电流值。

4、Vdrop= V_{IN1} - V_{OUT} (E)s ：V_{IN1}=逐渐减小输入电压， 当输出电压降为 V_{OUT} (E)1 的 98%时的输入电压。

V_{OUT} (E)s= V_{OUT} (E)1*98%;

V_{OUT} (E)1=当 V_{IN}= V_{OUT}(T)+1V ，Iout=某一数值时的输出电压值。

RATING AND CHARACTERISTIC CURVES

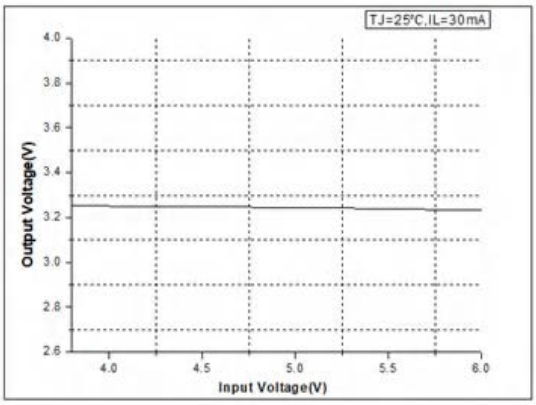


图1 输出电压和输入电压关系

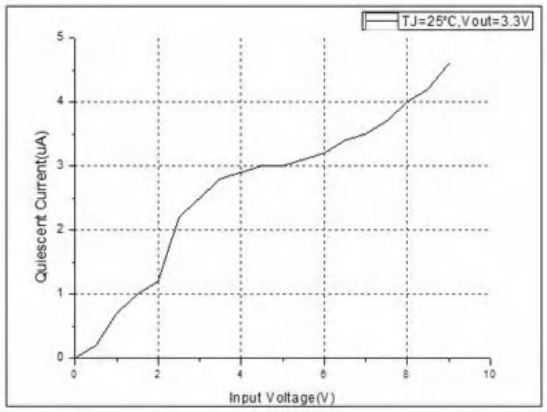


图2 静态功耗和输入电压关系

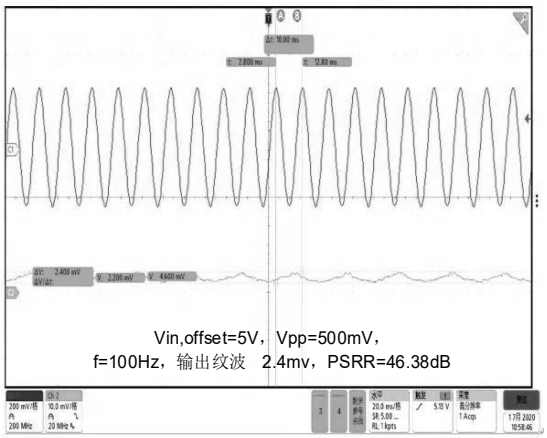


图3 纹波抑制比（f=100Hz）

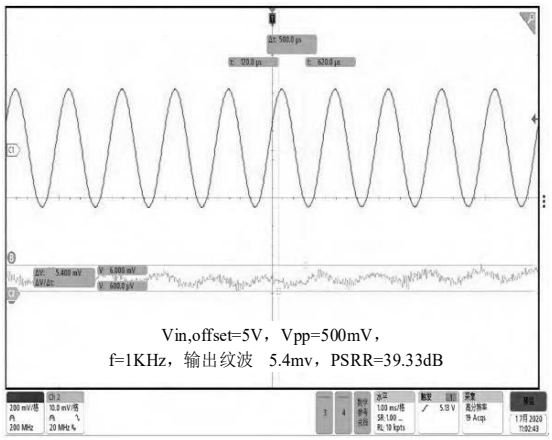


图4 纹波抑制比（f=1KHz）

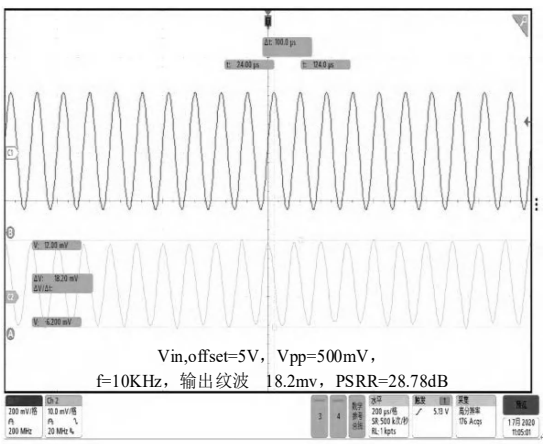


图5 纹波抑制比（f=10Hz）

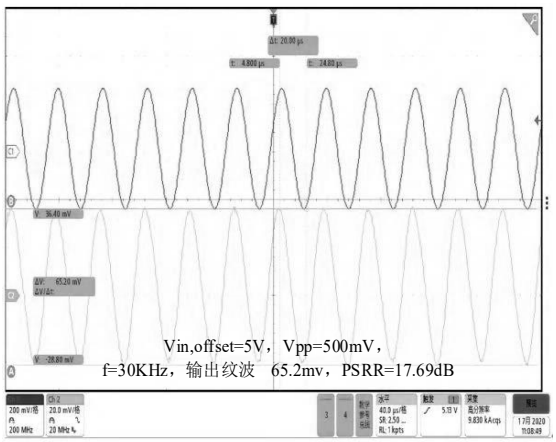
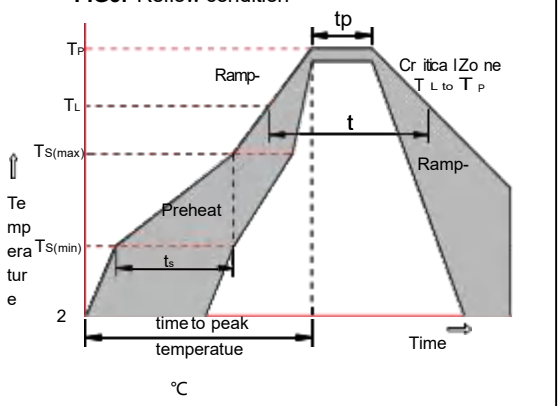


图6 纹波抑制比（f=30Hz）

Soldering parameters

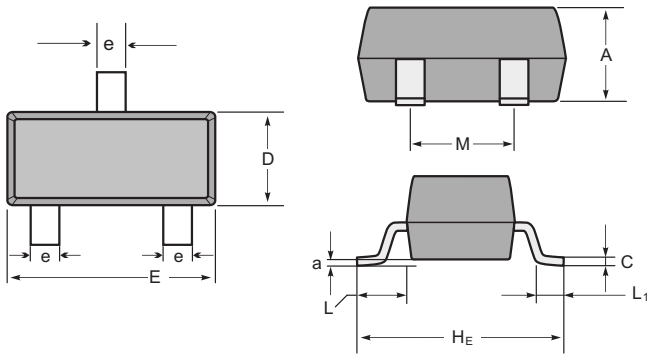
Reflow Condition		Pb-Free assembly (see as bellow)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150℃
	-Temperature Max($T_{s(max)}$)	+200℃
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3℃/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3℃/sec. Max
Reflow	-Temperature(T_L)(Liquid us)	+217℃
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)℃
Time within 5℃ of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6℃/sec. Max
Time 25℃ to Peak Temp (T_P)		8 min. Max
Do not exceed		+260℃

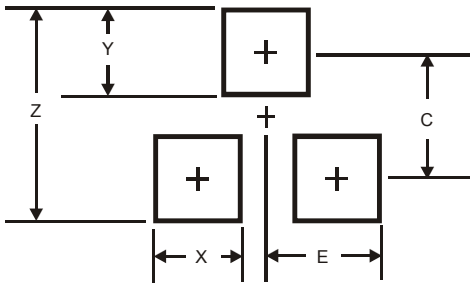
FIG5: Reflow condition



Package Dimensions & Suggested Pad Layout

SOT23





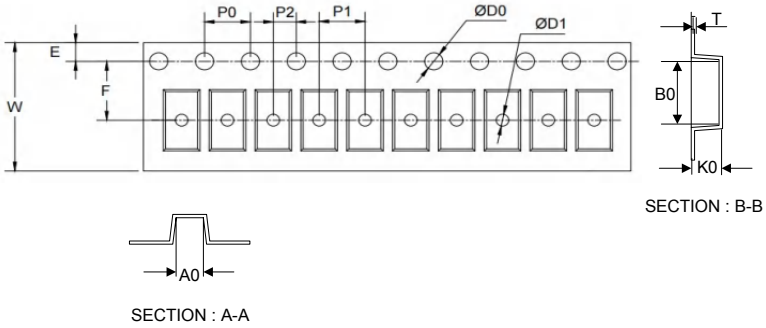
SOT-23 mechanical data

UNIT		A	C	D	E	H_E	e	M	L	L_1	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

Dimensions	SOT23
Z	2.9
X	0.8
Y	0.9
C	2.0
E	1.35

Tape & rell specification

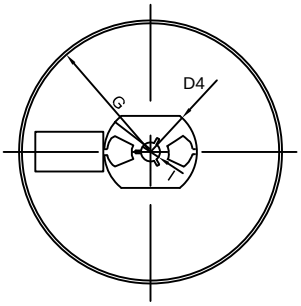
Tape

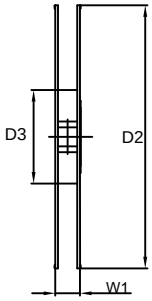


SECTION : B-B

SECTION : A-A

7" Reel





Symbol	Dimension (mm)
P0	4.00±0.10
P1	4.00±0.10
P2	2.00±0.10
D0	1.55±0.10
D1	1.05±0.10
E	1.55±0.10
F	3.60±0.10
W	8.00±0.10
A0	3.80±0.20
B0	3.25±0.20
K0	1.45±0.10
T	0.25±0.05
D2	178.0±3.0
D3	55Min.
D4	R24.0±3.0
G	R82.0±3.0
I	13.0±2.0
W1	11.0±3.0
Quantity: 3000PCS	

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