AK6206系列低压差线性电压稳压器

产品描述

( )

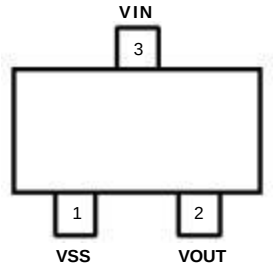
产品特点

- ( )
- ( )

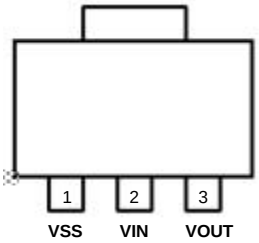
应用领域

封装形式和管脚定义

SOT-23/SOT23-3L
(Topview)



SOT89-3L
(Topview)



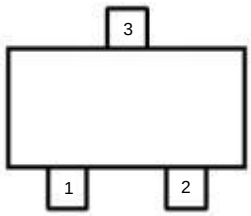
管		管脚名	功能描述
-23/ 23-3L	SOT89-3L		
1	1	VSS	
2	3	VOUT	
3	2	VIN	

订购信息

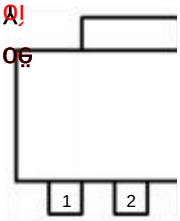
AK62 -⑥

符 号	含义	标志	描 述
		12~50	V_{OUT}=3.0V→ =3, =0
		2	+ 2% (V_{OUT} 1.5V), +30mV (V_{OUT}<1.5V)
		1	+1% (V_{OUT} 2.0V)
		V	SOT -23 (3,000/Reel)
		M	SOT23-3L(3,000/Reel)
		P	SOT89-3L(1,000/Reel)
		R	
		L	
		G	RoHs/Pb Free

SOT-23/SOT23-3L
(Topview)



SOT89-3L
(Topview)



① 表示产品系列

印	
6	AK6206

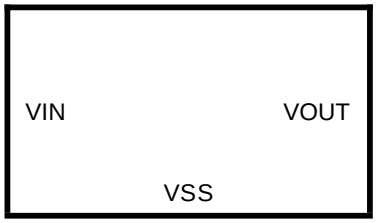
② 表示精度类型

精度	印章符号		
	VOUT=1.2~3.0V	VOUT=3.1V~6.0V	
2%	5	6	AK6206P
1%	A	B	

③ 表示输出电压

印章符号		
F	1.6	4.6
H	1.7	4.7
K	1.8	4.8
L	1.9	4.9
M	2.0	5.0
N	2.1	5.1
P	2.2	5.2
R	2.3	5.3
S	2.4	5.4
T	2.5	5.5
U	2.6	5.6
V	2.7	5.7
X	2.8	5.8
Y	2.9	5.9
Z	3.0	6.0

典型应用



功能框图

VIN

电学参数

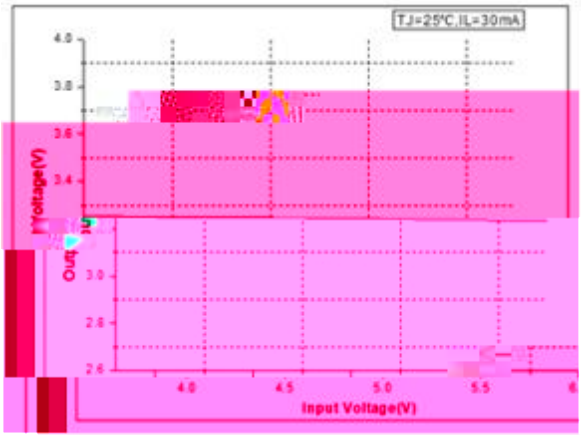
C

目	符号	条件	最小值	典型值	最大值	单位
	$V_{OUT(E)}$	V_{IN} =$V_{OUT(S)}$+1.0V, I_{OUT}=1mA, ± 2%	$V_{OUT(S)}$ ×0.98	$V_{OUT(S)}$	$V_{OUT(S)}$ ×1.02	V
		V_{IN} =$V_{OUT(S)}$+1.0V, I_{OUT}=1 mA, ± 1%	$V_{OUT(S)}$ ×0.99	$V_{OUT(S)}$	$V_{OUT(S)}$ ×1.01	
	I_{OUT}	V_{IN}≥$V_{OUT(S)}$+1.0V	300	—	—	mA
	ΔV_{OUT}	V_{IN}=V_{OUT}+1V 1mA≤I_{OUT}≤100mA	—	25	—	mV
	V_{drop}	1.5V≤$V_{OUT(S)}$≤2.5V I_{OUT}=50mA	—	0.20	0.28	V
		2.6V≤$V_{OUT(S)}$≤3.3V I_{OUT}=50mA	—	0.16	0.24	
		3.4V≤$V_{OUT(S)}$≤6.0V I_{OUT}=50mA	—	0.12	0.20	
	ΔV_{OUT1} ΔV_{IN} V_{OUT}	$V_{OUT(S)}$+0.5V≤V_{IN}≤5.5V I_{OUT}=1mA	—	0.05	0.2	%/V
	I_{SS}	V_{IN}=$V_{OUT(S)}$+1.0V		3		uA
	V_{IN}		1.8		6	V
	ΔV_{OUT} ΔT_{OPR} V_{OUT}	I_{OUT}=40mA -40℃≤T_{opr}≤85℃		100		ppm/ ℃
	PSRR	V_{IN}= [V_{OUT}+1]V +1Vp-pAC I_{OUT} =10mA,f=1kHz		40		dB
	I_{SHORT}	V_{IN}=V_{OUT}+1.5V, V_{OUT}ө V_{SS}		47		mA
	I_{LIMIT}			300	350	mA

注:

特征曲线

(3.3V output)



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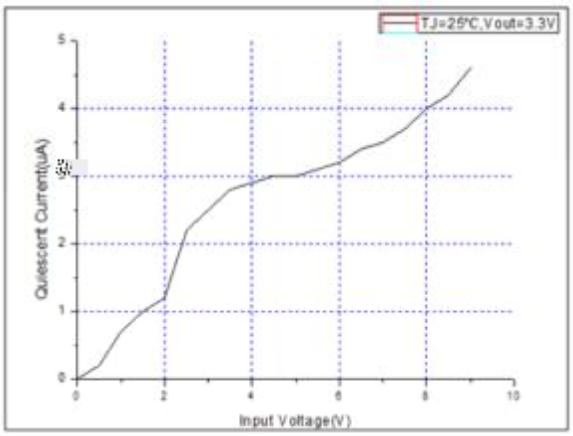
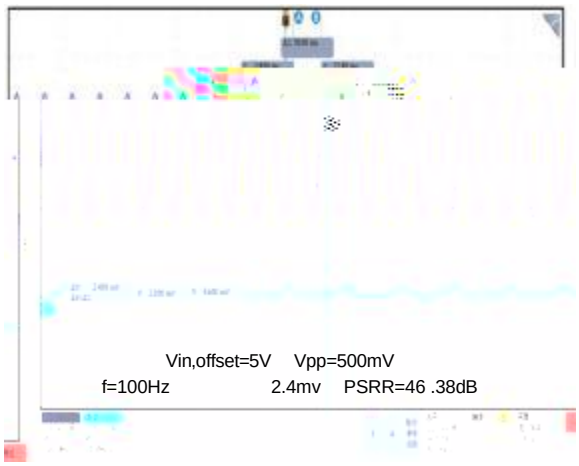
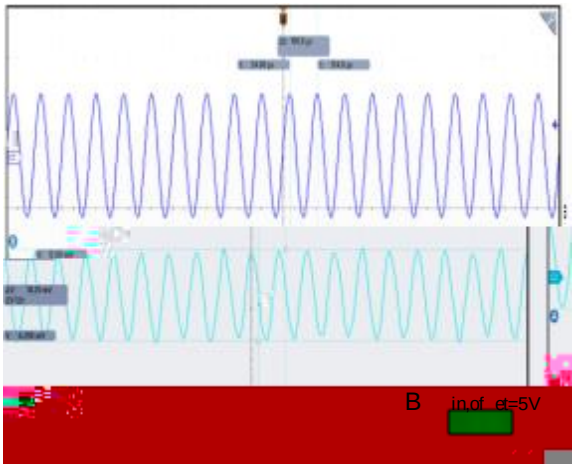


2 P Ö

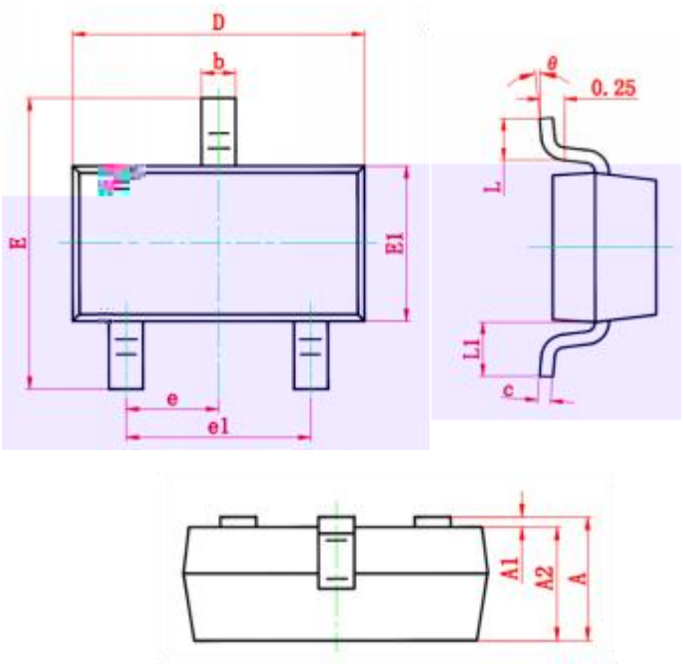


3 (f=100Hz)



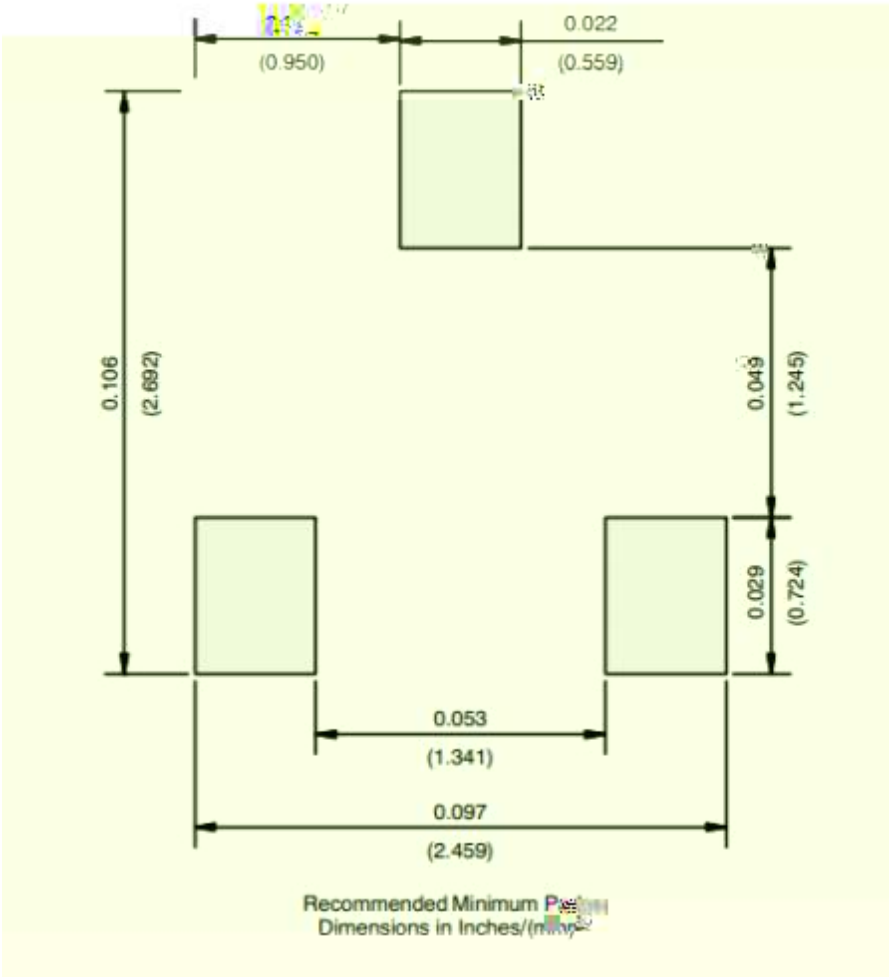
5 (f=10Hz)

- **SOT-23**



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.300	0.500	0.012	0.020
L1	0.550 REF.		0.022 REF.	
θ	0°	8°	0°	

(mm)



Recommended Minimum Pad
Dimensions in Inches/(mm)