



# 桂林斯壯桂微電子有限責任公司

## Guilin Strong Micro-Electronics Co.,Ltd.

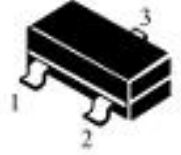
GM6202

SOT-23

■DESCRIPTION 功能

Three-terminal Voltage Regulator 三端穩壓

1. OUT  
2. IN  
3. GND



■MAXIMUM RATINGS 最大額定值

Characteristic 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Output Voltage 輸出電壓	$V_{OUT}$	3~24	V
Output Current 輸出電流	$I_{OUT}$	150	mA
Power Dissipation 耗散功率	$P_D$	250	mW
Operating Temperature 工作溫度	$T_{opr}$	-40 ~ +85	°C
Storage Temperature 儲存溫度	$T_{stg}$	-40 ~ +125	°C

■DEVICE MARKING 打標

GM6202=①②③④

①②Represents product series 代表產品系列

Marking	product series
6 2	GM6202- $V_{OUT}$

③④Represents output voltage standard 代表輸出電壓標準值

Marking	Output Voltage(V)
0 3	3
3 3	3.3
0 5	5
0 6	6
0 8	8
0 9	9
1 0	10
1 2	12
1 5	15
1 8	18
2 4	24

GM6202

■ELECTRICAL CHARACTERISTICS 電特性

(Unless otherwise noted 如無特殊說明,  $C_{IN}=10\mu F, C_{OUT}=10\mu F, T_a=25^\circ C$ )

Characteristic 特性參數	Symbol 符號	Test Condition 測試條件	Min 最小值	Typ 典型值	Max 最大值	Unit 單位	
Output Voltage 輸出電壓	$V_{OUT}$	$V_{IN}=V_{OUT}+1V, I_{OUT}=30mA$	$V_{OUT(S)} \times 0.98$	$V_{OUT(S)}$	$V_{OUT(S)} \times 1.02$	V	
Output Current 輸出電流	$I_{OUT}$	$V_{IN}=V_{OUT(S)}+1V$	—	150	—	mA	
Dropout Voltage 落差電壓	$V_{DROP}$	$I_{OUT}=100mA$	$V_{OUT(S)} < 5V$	—	900	1000	mV
			$5V \leq V_{OUT(S)} \leq 10V$	—	440	550	
			$12V \leq V_{OUT(S)} \leq 24V$	—	290	380	
Load Regulation 負載電壓偏差	$\Delta V_{OUT}$	$V_{IN}=V_{OUT(S)}+1V,$ $1mA \leq I_{OUT} \leq 100mA$	—	50	100	mV	
Line Regulation 線性電壓偏差	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$V_{OUT(S)}+1V \leq V_{IN} \leq 25V,$ $I_{OUT}=1mA$	—	0.05	0.2	$\frac{\%}{V}$	
Quiescent Current 靜態電流	$I_q$	$V_{IN}=V_{OUT(S)}+1V$	—	10	25	uA	
Temperature Coefficient 溫度系數	$\frac{\Delta V_{OUT}}{\Delta T_a \times V_{OUT}}$	$V_{IN}=V_{OUT(S)}+1V, I_{OUT}=30mA,$ $0^\circ C \leq T_a \leq 70^\circ C$	—	$\pm 100$	—	$\frac{ppm}{^\circ C}$	
Input Voltage 輸入電壓	$V_{IN}$	—	$V_{OUT}+1$	—	$V_{OUT}+6$	V	
Ripple Rejection 紋波抑制	RR	$V_{IN}=V_{OUT(S)}+1V, f=1.0KHz,$ $I_{OUT}=10mA$	—	40	—	dB	