

## 2 电源用IC

### 带有软启动功能的 1000mA 稳压器

### MM192x系列

#### 概要

本IC是带有软启动功能的1000mA稳压器。搭载了软启动功能，通过在Cs端子上连接电容，可以让输出电压平缓地升高。通过软启动功能，可以抑制升压时的冲击电流，能够实现前端电源电路变压器的小型化及削减总成本。

#### 用途

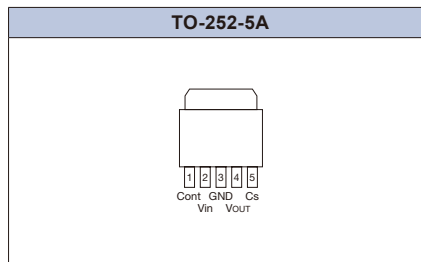
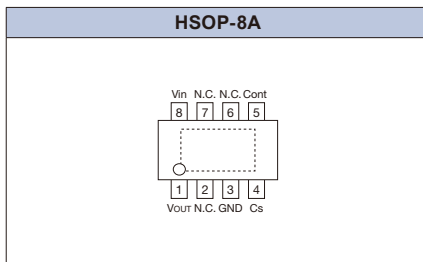
- (1) DVD录像机
- (2) Blu-ray录像机
- (3) FPD

#### 特点

(在没有特别注明时,  $T_{opr}=+25^{\circ}\text{C}$ )

- (1) 输入电压范围 2.4 ~ 12V
- (2) 输出电压范围 1.2 ~ 5.1V
- (3) 输出电压精度  $V_{OUT} \pm 30\text{mV}$  ( $V_{OUT} < 1.5\text{V}$ )  
 $V_{OUT} \pm 2\%$  ( $V_{OUT} \geq 1.5\text{V}$ )
- (4) 输出电流 1000mA
- (5) 消耗电流 1mA typ. (无负载时)  
1 $\mu\text{A}$  max. (OFF时)
- (6) 输出电容器容量 1 $\mu\text{F}$
- (7) 输入输出电压差 0.6V max. ( $I_o=1000\text{mA}$ )
- (8) 输入变动 10mV typ.  
20mV max. ( $I_o=1\text{mA}$ )
- (9) 负载变动 20mV typ.  
100mV max. ( $I_o=1\text{mA} \sim 1000\text{mA}$ )
- (10) 纹波抑制比 70dB typ. ( $f=1\text{kHz}$ )

#### 封装



#### 型号的构成

MM 1 9 2 □ □ □ □ E

- 模压钻孔 E
- 存放方向 B (HSOP-8A的情况下)
- 存放方向 R (TO-252C的情况下)
- 封装代码  
HSOP-8A : H  
TO-252C : T
- 输出电压 (1)
- 输出电压 (2)  
(例) 3.0V : 3A  
3.1V : 3B  
3.2V : 3C

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## 选择指南

输出电压	精度	机种名称		输入输出电压差1 (max.) Io=500mA	输入输出电压差2 (max.) Io=1000mA	输出电流	无负载时 消耗电流 (Typ.)
		HSOP-8A封装 (2,000个 / 卷)	TO-252-5 (3,000个 / 卷)				
1.2V	±30mV	MM1921CHBE	MM1921CTRE	0.3V	0.6V	1000mA	1mA
1.3V	±30mV	MM1921DHBE	MM1921DTRE	0.3V	0.6V	1000mA	1mA
1.4V	±30mV	MM1921EHBE	MM1921ETRE	0.3V	0.6V	1000mA	1mA
1.5V	±2%	MM1921FHBE	MM1921FTRE	0.3V	0.6V	1000mA	1mA
1.6V	±2%	MM1921GHBE	MM1921GTRE	0.3V	0.6V	1000mA	1mA
1.7V	±2%	MM1921HHBE	MM1921HTRE	0.3V	0.6V	1000mA	1mA
1.8V	±2%	MM1921JHBE	MM1921JTRE	0.3V	0.6V	1000mA	1mA
1.9V	±2%	MM1921KHBE	MM1921KTRE	0.3V	0.6V	1000mA	1mA
2.0V	±2%	MM1922AHBE	MM1922ATRE	0.3V	0.6V	1000mA	1mA
2.1V	±2%	MM1922BHBE	MM1922BTRE	0.3V	0.6V	1000mA	1mA
2.2V	±2%	MM1922CHBE	MM1922CTRE	0.3V	0.6V	1000mA	1mA
2.3V	±2%	MM1922DHBE	MM1922DTRE	0.3V	0.6V	1000mA	1mA
2.4V	±2%	MM1922EHBE	MM1922ETRE	0.3V	0.6V	1000mA	1mA
2.5V	±2%	MM1922FHBE	MM1922FTRE	0.3V	0.6V	1000mA	1mA
2.6V	±2%	MM1922GHBE	MM1922GTRE	0.3V	0.6V	1000mA	1mA
2.7V	±2%	MM1922HHBE	MM1922HTRE	0.3V	0.6V	1000mA	1mA
2.8V	±2%	MM1922JHBE	MM1922JTRE	0.3V	0.6V	1000mA	1mA
2.9V	±2%	MM1922KHBE	MM1922KTRE	0.3V	0.6V	1000mA	1mA
3.0V	±2%	MM1923AHBE	MM1923ATRE	0.3V	0.6V	1000mA	1mA
3.1V	±2%	MM1923BHBE	MM1923BTRE	0.3V	0.6V	1000mA	1mA
3.2V	±2%	MM1923CHBE	MM1923CTRE	0.3V	0.6V	1000mA	1mA
3.3V	±2%	MM1923DHBE	MM1923DTRE	0.3V	0.6V	1000mA	1mA
3.4V	±2%	MM1923EHBE	MM1923ETRE	0.3V	0.6V	1000mA	1mA
3.5V	±2%	MM1923FHBE	MM1923FTRE	0.3V	0.6V	1000mA	1mA
3.6V	±2%	MM1923GHBE	MM1923GTRE	0.3V	0.6V	1000mA	1mA
3.7V	±2%	MM1923HHBE	MM1923HTRE	0.3V	0.6V	1000mA	1mA
3.8V	±2%	MM1923JHBE	MM1923JTRE	0.3V	0.6V	1000mA	1mA
3.9V	±2%	MM1923KHBE	MM1923KTRE	0.3V	0.6V	1000mA	1mA
4.0V	±2%	MM1924AHBE	MM1924ATRE	0.3V	0.6V	1000mA	1mA
4.1V	±2%	MM1924BHBE	MM1924BTRE	0.3V	0.6V	1000mA	1mA
4.2V	±2%	MM1924CHBE	MM1924CTRE	0.3V	0.6V	1000mA	1mA
4.3V	±2%	MM1924DHBE	MM1924DTRE	0.3V	0.6V	1000mA	1mA
4.4V	±2%	MM1924EHBE	MM1924ETRE	0.3V	0.6V	1000mA	1mA
4.5V	±2%	MM1924FHBE	MM1924FTRE	0.3V	0.6V	1000mA	1mA
4.6V	±2%	MM1924GHBE	MM1924GTRE	0.3V	0.6V	1000mA	1mA
4.7V	±2%	MM1924HHBE	MM1924HTRE	0.3V	0.6V	1000mA	1mA
4.8V	±2%	MM1924JHBE	MM1924JTRE	0.3V	0.6V	1000mA	1mA
4.9V	±2%	MM1924KHBE	MM1924KTRE	0.3V	0.6V	1000mA	1mA
5.0V	±2%	MM1925AHBE	MM1925ATRE	0.3V	0.6V	1000mA	1mA
5.1V	±2%	MM1925BHBE	MM1925BTRE	0.3V	0.6V	1000mA	1mA