

2 电源用IC

低饱和型 1.5A 稳压器

MM1870系列

概要

本IC是低饱和电压的输出为1.5A的稳压器IC。除低饱和电压(0.26V typ., $I_o=1.5A$)外,还具有最低0.9V的低电压输出,因此可实现低输入电压工作。封装方法除高散热的PKG TO-252-5外,还包括小型封装的HSOP-8。另外除过电流保护电路外,还设置了热关断电路等保护功能电路。

用途

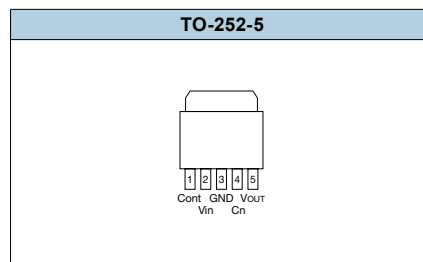
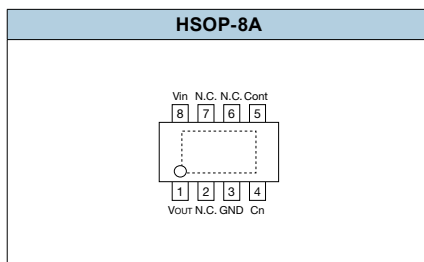
- (1) FPD
- (2) Blu-ray、DVD录像机
- (3) STB

特点

(在没有特别注明时, $T_{opr}=+25^{\circ}C$)

- | | |
|-------------|--|
| (1) 输入电压范围 | 1.25 ~ 10V |
| (2) 输出电压范围 | 0.9 ~ 5.0V |
| (3) 输出电压精度 | $V_{OUT} \pm 2\%$ |
| (4) 输出电流 | 1500mA |
| (5) 消耗电流 | 1mA typ. (无负载时) |
| (6) 输出电容器容量 | 1 μ F |
| (7) 输入输出电压差 | 0.26V typ. ($I_o=1500mA$) |
| (8) 输入变动 | 10mV typ.
20mV max. ($I_o=1mA$) |
| (9) 负载变动 | 19mV typ.
50mV max. ($I_o=1mA \sim 1500mA$) |
| (10) 纹波抑制比 | 65dB typ. ($f=1kHz$) |

封装



型号的构成

MM 1 8 7 0 A □ □ □ □ 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
 - (例) 3.0V : 30
 - 3.5V : 35

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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 (typ.) I _o =1500mA	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)			
0.9V	±30mV	MM1870A09HBE	MM1870A09TRE	※	1500mA	1mA
1.0V	±30mV	MM1870A10HBE	MM1870A10TRE	※	1500mA	1mA
1.1V	±30mV	MM1870A11HBE	MM1870A11TRE	0.26V	1500mA	1mA
1.2V	±30mV	MM1870A12HBE	MM1870A12TRE	0.26V	1500mA	1mA
1.3V	±30mV	MM1870A13HBE	MM1870A13TRE	0.26V	1500mA	1mA
1.4V	±30mV	MM1870A14HBE	MM1870A14TRE	0.26V	1500mA	1mA
1.5V	±2%	MM1870A15HBE	MM1870A15TRE	0.26V	1500mA	1mA
1.6V	±2%	MM1870A16HBE	MM1870A16TRE	0.26V	1500mA	1mA
1.7V	±2%	MM1870A17HBE	MM1870A17TRE	0.26V	1500mA	1mA
1.8V	±2%	MM1870A18HBE	MM1870A18TRE	0.26V	1500mA	1mA
1.9V	±2%	MM1870A19HBE	MM1870A19TRE	0.26V	1500mA	1mA
2.0V	±2%	MM1870A20HBE	MM1870A20TRE	0.26V	1500mA	1mA
2.1V	±2%	MM1870A21HBE	MM1870A21TRE	0.26V	1500mA	1mA
2.2V	±2%	MM1870A22HBE	MM1870A22TRE	0.26V	1500mA	1mA
2.3V	±2%	MM1870A23HBE	MM1870A23TRE	0.26V	1500mA	1mA
2.4V	±2%	MM1870A24HBE	MM1870A24TRE	0.26V	1500mA	1mA
2.5V	±2%	MM1870A25HBE	MM1870A25TRE	0.26V	1500mA	1mA
2.6V	±2%	MM1870A26HBE	MM1870A26TRE	0.26V	1500mA	1mA
2.7V	±2%	MM1870A27HBE	MM1870A27TRE	0.26V	1500mA	1mA
2.8V	±2%	MM1870A28HBE	MM1870A28TRE	0.26V	1500mA	1mA
2.9V	±2%	MM1870A29HBE	MM1870A29TRE	0.26V	1500mA	1mA
3.0V	±2%	MM1870A30HBE	MM1870A30TRE	0.26V	1500mA	1mA
3.1V	±2%	MM1870A31HBE	MM1870A31TRE	0.26V	1500mA	1mA
3.2V	±2%	MM1870A32HBE	MM1870A32TRE	0.26V	1500mA	1mA
3.3V	±2%	MM1870A33HBE	MM1870A33TRE	0.26V	1500mA	1mA
3.4V	±2%	MM1870A34HBE	MM1870A34TRE	0.26V	1500mA	1mA
3.5V	±2%	MM1870A35HBE	MM1870A35TRE	0.26V	1500mA	1mA
3.6V	±2%	MM1870A36HBE	MM1870A36TRE	0.26V	1500mA	1mA
3.7V	±2%	MM1870A37HBE	MM1870A37TRE	0.26V	1500mA	1mA
3.8V	±2%	MM1870A38HBE	MM1870A38TRE	0.26V	1500mA	1mA
3.9V	±2%	MM1870A39HBE	MM1870A39TRE	0.26V	1500mA	1mA
4.0V	±2%	MM1870A40HBE	MM1870A40TRE	0.26V	1500mA	1mA
4.1V	±2%	MM1870A41HBE	MM1870A41TRE	0.26V	1500mA	1mA
4.2V	±2%	MM1870A42HBE	MM1870A42TRE	0.26V	1500mA	1mA
4.3V	±2%	MM1870A43HBE	MM1870A43TRE	0.26V	1500mA	1mA
4.4V	±2%	MM1870A44HBE	MM1870A44TRE	0.26V	1500mA	1mA
4.5V	±2%	MM1870A45HBE	MM1870A45TRE	0.26V	1500mA	1mA
4.6V	±2%	MM1870A46HBE	MM1870A46TRE	0.26V	1500mA	1mA
4.7V	±2%	MM1870A47HBE	MM1870A47TRE	0.26V	1500mA	1mA
4.8V	±2%	MM1870A48HBE	MM1870A48TRE	0.26V	1500mA	1mA
4.9V	±2%	MM1870A49HBE	MM1870A49TRE	0.26V	1500mA	1mA
5.0V	±2%	MM1870A50HBE	MM1870A50TRE	0.26V	1500mA	1mA

※在V_{OUT}=1.0V以下的产品中不保证该项目。