

5A Low-Dropout Linear Regulator

Features

- Adjustable or Fixed Output Voltage 1.5V, 1.8V, 2.5V, 3.3V and 5.0V
- Internal Short Circuit Current Limiting
- Internal Over Temperature Protection
- Output Current 5A
- 1.5V max. Dropout Voltage at 5A Load Current
- TO-252, TO-263 and TO-263T Package

Applications

- PC Motherboard
- Post Regulation for Switching DC/DC Converter
- High Efficiency Linear Regulator
- Battery Powered Instrumentation

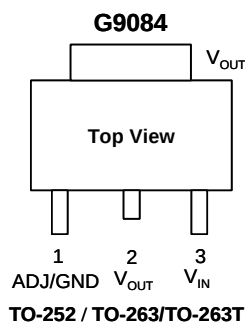
General Description

The G9084 is a low dropout linear regulator to provide well regulated supply for applications requiring lower voltage from such as, 3.3V PC ATX power supplies.

The G9084 provides over temperature and over current protection circuits to prevent it from being damaged by abnormal operating conditions.

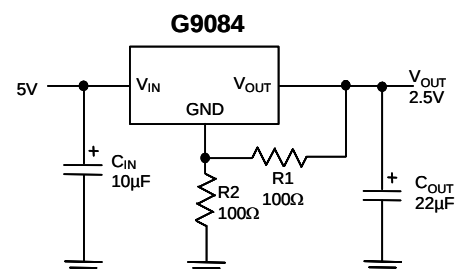
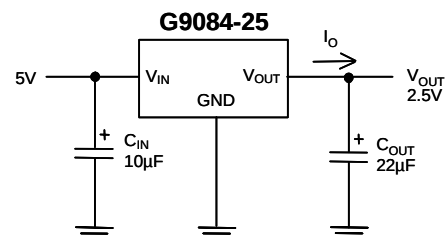
A 22μF tantalum electrolytic capacitor is recommended at the output to improve the transient response and stability.

Package Type



Typical Application Circuit

[Note 4]: Type of C_{OUT}



Note: $V_O = V_{REF} (1 + R2/R1) + I_{ADJ} \times R2$

Ordering Information

ORDER NUMBER	MARKING	VOLTAGE	TEMP. RANGE	PACKAGE (Pb free/Green)	REMARK
G9084T43U	G9084	Adjustable	-40°C to +85°C	TO-252	
G9084-15T43U	G9084-15	1.5V	-40°C to +85°C	TO-252	
G9084-18T43U	G9084-18	1.8V	-40°C to +85°C	TO-252	
G9084-25T43U	G9084-25	2.5V	-40°C to +85°C	TO-252	
G9084-33T43U	G9084-33	3.3V	-40°C to +85°C	TO-252	
G9084-50T43U	G9084-50	5.0V	-40°C to +85°C	TO-252	
G9084T43D	G9084	Adjustable	-40°C to +85°C	TO-252	
G9084-15T43D	G9084-15	1.5V	-40°C to +85°C	TO-252	
G9084-18T43D	G9084-18	1.8V	-40°C to +85°C	TO-252	
G9084-25T43D	G9084-25	2.5V	-40°C to +85°C	TO-252	
G9084-33T43D	G9084-33	3.3V	-40°C to +85°C	TO-252	
G9084-50T43D	G9084-50	5.0V	-40°C to +85°C	TO-252	
G9084T53U	G9084	Adjustable	-40°C to +85°C	TO-263	
G9084-15T53U	G9084-15	1.5V	-40°C to +85°C	TO-263	
G9084-18T53U	G9084-18	1.8V	-40°C to +85°C	TO-263	
G9084-25T53U	G9084-25	2.5V	-40°C to +85°C	TO-263	
G9084-33T53U	G9084-33	3.3V	-40°C to +85°C	TO-263	
G9084-50T53U	G9084-50	5.0V	-40°C to +85°C	TO-263	
G9084TU3U	G9084	Adjustable	-40°C to +85°C	TO-263T	OBSOLETE
G9084-15TU3U	G9084-15	1.5V	-40°C to +85°C	TO-263T	OBSOLETE
G9084-18TU3U	G9084-18	1.8V	-40°C to +85°C	TO-263T	OBSOLETE
G9084-25TU3U	G9084-25	2.5V	-40°C to +85°C	TO-263T	OBSOLETE
G9084-33TU3U	G9084-33	3.3V	-40°C to +85°C	TO-263T	OBSOLETE
G9084-50TU3U	G9084-50	5.0V	-40°C to +85°C	TO-263T	OBSOLETE

* For other package types and pin options, please contact us at sales@gmt.com.tw

Note: T4 : TO-252 T5 : TO-263 TU : TO-263T

3: Bonding Code

U & D: Tape & Reel