

5A Low-Dropout Linear Regulator

Features

- Available in 1.5V, 1.8V, 2.5V, 3.3V version
- TO-252, TO-263 and TO-263T package
- Internal short circuit current limiting
- Internal over temperature protection
- Output current 5A

Applications

- Post regulation for switching DC/DC converter
- High efficiency linear regulator
- Battery powered instrumentation
- Motherboard

General Description

The G1084-XX is a low dropout linear regulator with a dropout of 1.3V at 5A of load current. It is available in three fixed voltages: 1.5V, 1.8V, 2.5V and 3.3V. Refer to the G1084 for the adjustable version.

The G1084-XX provides over temperature and over current protection circuits to prevent it from being damaged by abnormal operating conditions.

The G1084-XX is available in TO-252, TO-263 and TO-263T packages. A minimum of 220μF tantalum electrolytic capacitor is required at the output to improve the transient response and stability.

Ordering Information

ORDER NUMBER (Pb free/Green)	MARKING	TEMP. RANGE	PACKAGE	PIN OPTION			REMARK
				1	2	3	
G1084-15T43Uf	G1084-15	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-18T43Uf	G1084-18	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-25T43Uf	G1084-25	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-33T43Uf	G1084-33	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-15T43D	G1084-15	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-18T43D	G1084-18	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-25T43D	G1084-25	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-33T43D	G1084-33	-40°C to +85°C	TO-252	GND	V _{OUT}	V _{IN}	
G1084-15T53Uf	G1084-15	-40°C to +85°C	TO-263	GND	V _{OUT}	V _{IN}	OBSOLETE
G1084-18T53Uf	G1084-18	-40°C to +85°C	TO-263	GND	V _{OUT}	V _{IN}	OBSOLETE
G1084-25T53Uf	G1084-25	-40°C to +85°C	TO-263	GND	V _{OUT}	V _{IN}	OBSOLETE
G1084-33T53Uf	G1084-33	-40°C to +85°C	TO-263	GND	V _{OUT}	V _{IN}	OBSOLETE
G1084-15TU3Uf	G1084-15	-40°C to +85°C	TO-263T	GND	V _{OUT}	V _{IN}	OBSOLETE
G1084-18TU3Uf	G1084-18	-40°C to +85°C	TO-263T	GND	V _{OUT}	V _{IN}	OBSOLETE
G1084-25TU3Uf	G1084-25	-40°C to +85°C	TO-263T	GND	V _{OUT}	V _{IN}	OBSOLETE
G1084-33TU3Uf	G1084-33	-40°C to +85°C	TO-263T	GND	V _{OUT}	V _{IN}	OBSOLETE

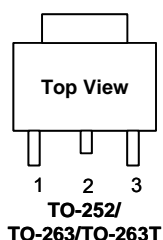
* For other package types and pin options, please contact us at sales@gmt.com.tw

Note: T4: TO-252 T5: TO-263 TU: TO-263T (thin)

3: Bonding Code

U & D: Tape & Reel

Package Type



Typical Application

[Note 4]: Type of C_{OUT}

