1A Adjustable Low-Dropout Linear Regulator

Features

- **Available in adjust version**
- **Space saving SOT-89, TO-220, TO-252 and SOT-223 package**
- **Internal short circuit current limiting**
- **Internal over temperature protection**
- **Output current in excess of 1A**

Applications

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

General Description

The G9117 is a low dropout linear regulator with a dropout of 1.2V at 800mA of load current and 1.3V at 1A of load current. It is available in an adjustable version, which can set the output from 1.25V to 12V with only two external resistors.

The G9117 provides over temperature and over current protection circuits to prevent it from being damaged by abnormal operating conditions.

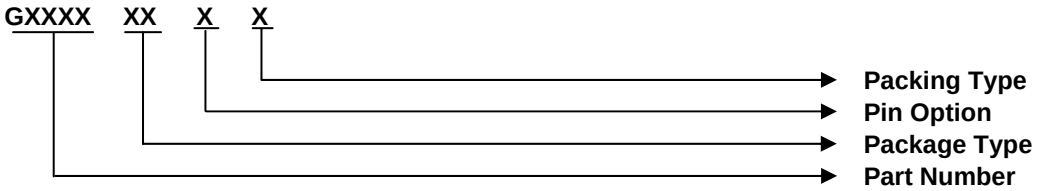
The G9117 is available in SOT-89, TO-220, TO-252 and SOT-223 packages. A minimum of 10μF tantalum electrolytic capacitor is required at the output to improve the transient response and stability.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Pb free/Green)	PIN OPTION		
				1	2	3
G9117T23U	97T23	-40°C~85°C	SOT-89	GND/ADJ	V_{OUT}	V_{IN}
G9117T33U	G9117	-40°C~85°C	TO-220	GND/ADJ	V_{OUT}	V_{IN}
G9117T43U	G9117	-40°C~85°C	TO-252	GND/ADJ	V_{OUT}	V_{IN}
G9117T43D	G9117	-40°C~85°C	TO-252	GND/ADJ	V_{OUT}	V_{IN}
G9117T63U	G9117	-40°C~85°C	SOT-223	GND/ADJ	V_{OUT}	V_{IN}

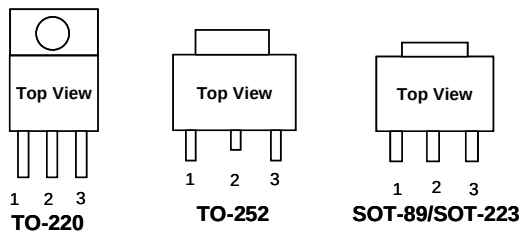
* For other package types and pin options, please contact us at sales@gmt.com.tw

Order Number Identification



PACKAGE TYPE	PIN OPTION			PACKING
T2:SOT-89	1	2	3	U & D : Tape & Reel
T3:TO-220	3: GND/ADJ	V_{OUT}	V_{IN}	
T4:TO-252				
T6: SOT-223				

Package Type



Typical Application

[Note 4]: Type of C_{OUT}

