

## 1A Adjustable Low-Dropout Linear Regulator

### Features

- Available in adjust version
- Space saving TO-252, SOT-223 and TO-92 package
- Internal short circuit current limiting
- Internal over temperature protection
- Output current in excess of 1A
- Output current in excess of 100mA with TO-92 package

### Applications

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

### General Description

The G1117 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 5V with only two external resistors.

The G1117 provides over temperature and over current protection circuits to prevent it from being damaged by abnormal operating conditions.

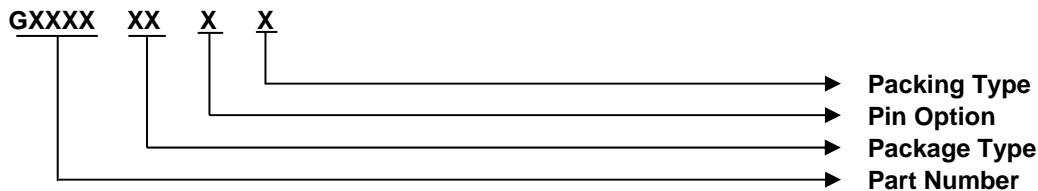
The G1117 is available in TO-252, SOT-223 and TO-92 packages. A minimum of 10 $\mu$ F tantalum electrolytic capacitor is required at the output to improve the transient response and stability.

### Ordering Information

ORDER NUMBER (Pb free/Green)	MARKING	TEMP. RANGE	PACKAGE	PIN OPTION		
				1	2	3
G1117T43Uf	G1117	-40°C~85°C	TO-252	GND/ADJ	V <sub>OUT</sub>	V <sub>IN</sub>
G1117T43D	G1117	-40°C~85°C	TO-252	GND/ADJ	V <sub>OUT</sub>	V <sub>IN</sub>
G1117T63Uf	G1117	-40°C~85°C	SOT-223	GND/ADJ	V <sub>OUT</sub>	V <sub>IN</sub>
G1117TD3B	G1117	-40°C~85°C	TO-92	GND/ADJ	V <sub>OUT</sub>	V <sub>IN</sub>

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

### Order Number Identification



#### PACKAGE TYPE

T4: TO-252  
 T6: SOT-223  
 TD: TO-92

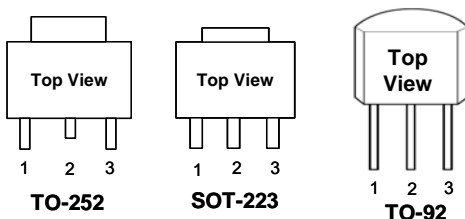
#### PIN OPTION

1   2   3  
 3: GND/ADJ   V<sub>OUT</sub>   V<sub>IN</sub>

#### PACKING

U & D: Tape & Reel  
 B: Bag

### Package Type



### Typical Application

[Note 4]: Type of C<sub>OUT</sub>

