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 10μF tantalum electrolytic capacitor is required at the output to improve the transient response and stability.

Ordering Information

<table>
<thead>
<tr>
<th>ORDER NUMBER (Pb free/Green)</th>
<th>MARKING</th>
<th>TEMP. RANGE</th>
<th>PACKAGE</th>
<th>PIN OPTION</th>
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<tbody>
<tr>
<td>G1117T43Uf</td>
<td>G1117</td>
<td>-40°C~85°C</td>
<td>TO-252</td>
<td>1: GND/ADJ VOUT VIN</td>
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<td>G1117</td>
<td>-40°C~85°C</td>
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<td>G1117</td>
<td>-40°C~85°C</td>
<td>SOT-223</td>
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<td>-40°C~85°C</td>
<td>TO-92</td>
<td>1: GND/ADJ VOUT VIN</td>
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</tbody>
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* For other package types and pin options, please contact us at sales@gmt.com.tw

Order Number Identification

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<th>PACKAGE TYPE</th>
<th>PIN OPTION</th>
<th>PACKING</th>
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<tr>
<td>T4: TO-252</td>
<td>1: GND/ADJ</td>
<td>U &amp; D: Tape &amp; Reel</td>
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<td>T6: SOT-223</td>
<td>2: VOUT</td>
<td>B: Bag</td>
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<td>TD: TO-92</td>
<td>3: VIN</td>
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Package Type

Typical Application

[Note 4]: Type of C OUT