



ACE1117G

1A Bipolar Linear Regulator

Description

ACE1117G is a series of low dropout three-terminal regulators with a dropout of 1.3V at 1A load current. ACE1117G features a very low standby current 2mA compared to 5mA of competitor.

Other than a fixed version, $V_{out} = 1.2V, 1.8V, 2.5V, 2.85V, 3.3V$ and 5V, ACE1117G has an adjustable version, which can provide an output voltage from 1.25 to 12V with only two external resistors.

ACE1117G offers thermal shut down function, to assure the stability of chip and power system. And it uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$. Other output voltage accuracy can be customized on demand, such as $\pm 1\%$.

ACE1117G is available in SOT-223 and TO-252 power package.

Features

- Maximum output current is 1A
- Range of operation input voltage: Max 15V
- Line regulation: 0.03%/V (typ.)
- Standby current: 2mA (typ.)
- Load regulation: 0.2%/A (typ.)
- Environment Temperature: $-40^{\circ}C \sim 85^{\circ}C$

Application

- Power Management for Computer Mother Board, Graphic Card
- LCD Monitor and LCD TV
- DVD Decode Board
- ADSL Modem
- Post Regulators For Switching Supplied

Absolute Maximum Ratings

Parameter	Value	
Max Input Voltage	16V	
Max Operating Junction Temperature (Tj)	150°C	
Ambient Temperature (Ta)	$-40^{\circ}C \sim 85^{\circ}C$	
Storage Temperature (Ts)	$-40^{\circ}C \sim 150^{\circ}C$	
Lead Temperature & Time	260°C 10S	
Power Dissipation (P _D)	1.2W	
Package Thermal Resistance (R _{θJA})	SOT-223	160°C/W
	TO-252	105°C/W

Caution: Exceed these limits to damage to the device. Exposure to absolute maximum rating conditions may affect device reliability



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Recommended work conditions

Parameter	Value
Recommended maximum input voltage	15V
Recommended operating junction temperature (Tj)	-20~125°C

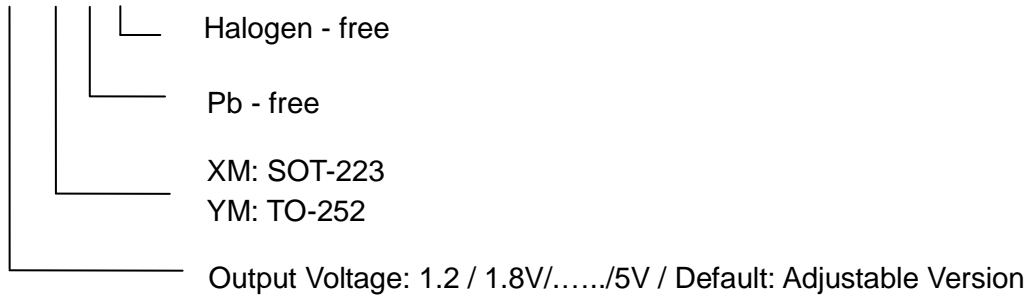


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Ordering information

ACE1117G XX XX + H





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Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Technology Co., LTD. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

ACE Technology Co., LTD.
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