

A Schlumberger Company

μΑ78G • μΑ79G 4-Terminal Adjustable Voltage Regulators

Linear Products

Description

The μ A78G and μ A79G are 4-Terminal Adjustable Voltage Regulators. They are designed to deliver continuous load currents of up to 1.0 A with a maximum input voltage of 40 V for the positive regulator 78G and -40 V for the negative regulator 79G. Output current capability can be increased to greater than 1.0 A through use of one or more external transistors. The output voltage range of the 78G positive voltage regulator is 5 V to 30 V and the output voltage range of the negative 79G is -30 V to -2.2 V. For systems requiring both a positive and negative, the 78G and 79G are excellent for use as a dual tracking regulator with appropriate external circuitry. These 4-terminal voltage regulators are constructed using the Fairchild Planar process.

- OUTPUT CURRENT IN EXCESS OF 1 A
- µA78G POSITIVE OUTPUT 5 TO 30 V
- µA79G NEGATIVE OUTPUT -30 TO -2.2 V
- INTERNAL THERMAL OVERLOAD PROTECTION
- INTERNAL SHORT CIRCUIT PROTECTION
- OUTPUT TRANSISTOR SAFE-AREA PROTECTION
- MILITARY AND COMMERCIAL VERSIONS
- 4-PIN TO-202 TYPE AND 4-PIN TO-3

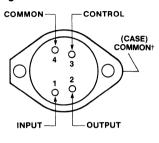
Absolute Maximum Ratings

4-Pin TO-3 (K) (60 s)

Input Voltage	
μA78G, μA78GC	40 V
μΑ79G, μΑ79GC	-40 V
Control Pin Voltage	
μΑ78G, μΑ78GC	$0 \le V \le V_{OUT}$
μΑ79G, μΑ79GC	$-V_{OUT} \le -V \le 0$
Power Dissipation	,
Operating Junction	
Temperature Range	Internally Limited
Military (μΑ78G, μΑ79G)	-55°C to 150°C
Commercial (µA78GC, µA79GC)	000 . 45000
Commercial (parodo, paredo)	0°C to 150°C
Storage Temperature Range	0°C to 150°C
	-55°C to +150°C
Storage Temperature Range	
Storage Temperature Range 4-Pin Power Watt (U1)	-55°C to +150°C

300°C

μA78G Connection Diagram TO-3 Package



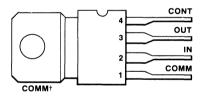
(Top View)

Heat sink tabs connected to common through device substrate.

Order Information

Туре	Package	Code	Part No.
μA78G	TO-3	GK	μA78GKM
μA78GC	TO-3	GK	μA78GKC

μ A78G Connection Diagram Power Watt Package



(Side View)

Heat sink tabs connected to common through device substrate.

Order Information

Order information				
Type	Package	Code	Part No.	
μA78GC	Power Watt	8Z	μA78GU1C	