

The Power . . . The Vision

79HG NEGATIVE 5 AMP VOLTAGE REGULATOR

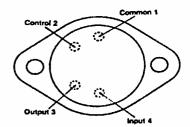
DESCRIPTION

The 79HG negative 4 terminal adjustable linear voltage regulator is capable of delivering a continous load current in excess of -5 amperes over an output range of -24 to -2.11 volts. The 79HG has built-in protection features such as output current limiting and thermal overload. If external conditions exceed the 79HG's capabilities (see absolute maximums), the device temporarily shuts down protecting itself and the load circuit until the fault is removed. This feature eliminates costly additional protection circuitry as well as overly conservative heat sinks typical of discrete high current voltage regulator designs. The 4 lead hermetic TO-204MA package, (formerly called TO-3) provides up to 50 watts of internal power dissipation.

FEATURES

- Output Voltage adjustable from -24 to -2.11 volts
- -5.0 A output current
- Internal Current and Thermal Overload Protection
- Low Dropout Voltage (typically 2.2V @ 5.0A)
- 50 W Power Dissipation
- Metal 4 lead T.O-204MA type package
- Case electrically isolated (floating)

Connection Diagram
TO-204 Type Package (Top View)



PRODUCT FAMILY

PART NUMBER	OUTPUT VOLTAGE	DESCRIPTION
79HGSC	-24 to -2.11 V	Commercial Temp
79HGSM	-24 to -2.11 V	Military Temp
79HGSP	-24 to -2.11 V	Military Process



TYPICAL ELECTRICAL CHARACTERISTICS

TJ=25° C, Vin=-10V, lout=-2.0A unless otherwise specified

Line Regulation

0.2% x Vout Vin=Vout-3V to

Vin=Vout-16V

Load Regulation

0.5% x Vout

-.01 to -5.0 amps

Short Circuit Current Limit

-8.0Apeak

Thermal Resistance Junction to Case 1.8° C/W

ABSOLUTE MAXIMUM RATINGS

Input Voltage -40V

Input to Output Differential,

Output Short Circuited

Internal Power Dissipation

50W @ 25° C case

Operating Junction Temperature:

79HGSC (commercial) 0° C to 150° C

79HGSM (mil temp) -55° C to 150° C

79HGSP (mil process) -55° C to 150° C

Storage Temperature Range

-55° C to 150° C

Pin Temp (soldering 60 sec)

300° C

-35V

