SG7805T

Data Sheet

Ic voltage reg pos 5v to-39

Manufacturers	Microchip Technology, Inc
Package/Case	TO-39
Product Type	PMIC - Voltage Regulators - Linear
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for SG7805T or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The SG78xxA/SG78xx series of positive regulators offer self-contained, fixed-voltage capability with up to 1.5 A of load current and input voltage up to 50 V (SG78xxA series only). These units feature a unique on-chip trimming system to set the output voltages to within ±1.5% of nominal on the SG78xxA series with ±2.0% on the SG78xx series. The SG78xxA versions also offer much improved line and load regulation characteristics. Utilizing an improved bandgap reference design, problems such as drift in output voltage and large changes in the line and load regulation, that are normally associated with the Zener diode references have been eliminated. All protective features of thermal shutdown, current limiting, and safe-area control have been designed into these units and since these regulators require only a small output capacitor for satisfactory performance, ease of application is assured. Although designed as fixed-voltage regulators, the output voltage can be increased through the use of a simple voltage divider. The low quiescent drain current of the device ensures good regulation when this method is used. Product is available in hermetically sealed TO-257 (both case grounded ‘G’ and isolated ‘IG’), TO-3, TO-39 and leadless chip carrier (LCC) packages.

Features

Output Voltage Set Internally to ±1.5% on SG78xxA

Input Voltage Range to 50 V max on SG78xxA

2 V Input-Output Differential

Excellent Line and Load Regulation

Fold back Current Limiting

Thermal Overload Protection

Voltages Available: 5 V, 12 V, 15 V

Contact Factory for Other Voltage Options

Available in Surface Mount Package

Related Products

SG1525AJ

Microchip Technology, Inc

DIP-16

SG2524BN

Microchip Technology, Inc

PDIP-16

SG3526BN

Microchip Technology, Inc

DIP-18

SG3526BDW

Microchip Technology, Inc

SOP-18

SG3524D

Microchip Technology, Inc

SOIC-16

SG1524BJ

Microchip Technology, Inc

CDIP-16

SG3524BN

Microchip Technology, Inc

DIP-16

SG1526BJ

Microchip Technology, Inc

DIP-18