

RS78XX

1.0A Low Dropout Positive Voltage Regulator

General Description

The RS78XX series can provide local on-card regulation, eliminating the distribution problems associated with single point regulation. Each employs internal current limiting, thermal shut-down and safe operating area protection, making it essentially indestructible. If adequate heat sinking is provided, they can deliver over 1A output current. Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain adjustable voltages and currents.

Features

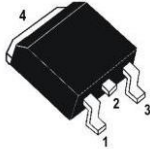
- Output Current In Excess of 1A
- Output Voltages of 5V, 6V, 8V, 9V, 12V
- Internal Short-Circuit Current Limiting & Thermal Overload Protection
- Guaranteed In Extended Temperature Range

Applications

- SCSI-2 Active Termination
- High Efficiency Linear Regulators
- 5V to 3.3V Voltage Converter
- Battery Charger
- Battery Management Circuits For Notebook And Palmtop PCs
- Core Voltage Supply: FPGA, PLD, DSP, CPU

Pin Assignments

TO-252



TO-220-3



PACKAGE	PIN	SYMBOL	DESCRIPTION
TO-252	1	VIN	Regulator Input Pin
	2, 4	GND	Ground Pin
	3	VOUT	Regulator Output Pin

PACKAGE	PIN	SYMBOL	DESCRIPTION
TO-220-3	1	VIN	Regulator Input Pin
	2, 4	GND	Ground Pin
	3	VOUT	Regulator Output Pin



This integrated circuit can be damaged by ESD. Orister Corporation recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.