

## CYT7550 Low Dropout Linear Regulator



## General Description

CYT7550 is a low dropout linear regulator using CMOS technology. The maximum operating voltage can reach 24V. It has low static power consumption and is widely used for power supply of various audio, video equipment, communication and other equipment.

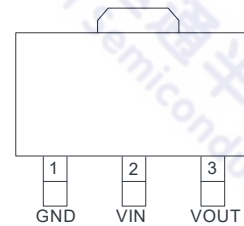
## Electric Characteristics

Description	Symbol	Condition	Min.	Typ.	Max.	Unit
Output Voltage	$V_{OUT}$	$V_{IN}=V_{OUT}+2.0V, I_{OUT}=10mA$	4.9	5.0	5.1	V
Output Current	$I_{OUT}$	$V_{IN}=V_{OUT}+2.0V$	100	150	—	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=V_{OUT}+2.0V, 1mA \leq I_{OUT} \leq 70mA$	—	25	60	mV
Low Dropout	$V_{DIF}$	$I_{OUT}=1mA, \Delta V_{OUT}=2\%$	—	25	55	mV
Quiescent Current	$I_{SS}$	No load	—	1.5	3.0	$\mu A$
Line Regulation	$\Delta V_{OUT}/V_{OUT} * \Delta V_{IN}$	$V_{OUT}+1.0V \leq V_{IN} \leq 24V, I_{OUT}=1mA$	—	—	0.2	%/V
Input Voltage	$V_{IN}$	—	—	—	24	V
Temperature Coefficient	$\Delta V_{OUT}/\Delta T_A * V_{OUT}$	$V_{IN}=V_{OUT}+2.0V, I_{OUT}=10mA, -40^\circ C \leq T_A \leq 85^\circ C$	—	100	—	ppm/ $^\circ C$

## Absolute Maximum Ratings

Description	Symbol	Range	Unit
Operating Voltage	$V_{IN}$	-0.3~26	V
Storage Temperature Range	$T_{STG}$	-50~125	$^\circ C$
Operating Temperature	$T_A$	-40~85	$^\circ C$

## Pin Diagram(Top View)



SOT89-3

## Typical Application

