



ACE555

Low Consumption Current High PSRR 300mA CMOS Voltage Regulator

Description

The ACE555 series are a group of positive voltage regulators manufactured by CMOS technologies with high ripple rejection, low power consumption and low dropout voltage, which can prolong battery life in portable electronics. The ACE555 series work with low-ESR ceramic capacitors, reducing the amount of board space necessary for power applications. The ACE555 series consume less than 0.1uA in shutdown mode and have fast turn-on time less than 50us. The series are very suitable for the battery-powered equipment, such as RF applications and other systems requiring a quiet voltage.

Features

- Low Dropout Voltage : 150mV@150mA
- Low Quiescent Current : 5μA
- High Ripple Rejection : 65dB@1kHz
- Excellent Line and Load Transient Response
- Operating Voltage : 2.0V~7.0V
- Output Voltage : 1.2 ~ 5.0V
- High Accuracy : ±1%、±2%
- Built-in Current Limiter, Short-Circuit Protection
- TTL- Logic-Controlled Shutdown Input

Application

- Cellular and Smart Phones
- Laptop, Palmtops and PDA
- Digital Still and Video Cameras
- MP3, MP4 Player
- Radio control systems
- Battery-Powered Equipment

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit	
Input Voltage	V_{IN}	$V_{SS} - 0.3 \sim V_{SS} + 8$	V	
Output Current	I_{OUT}	600	mA	
Output Voltage	V_{OUT}	$V_{SS} - 0.3 \sim V_{IN} + 0.3$	V	
Power Dissipation	SOT-23-3	P_d	250	mW
	SOT-23-5	P_d	250	mW
	SC-70-5	P_d	250	mW
	DFN1*1-4	P_d	400	mW
Operating Temperature	T_{opr}	-40~85	°C	
Storage Temperature	T_{stg}	-40~125	°C	
Soldering Temperature & Time	T_{solder}	260°C, 10s		

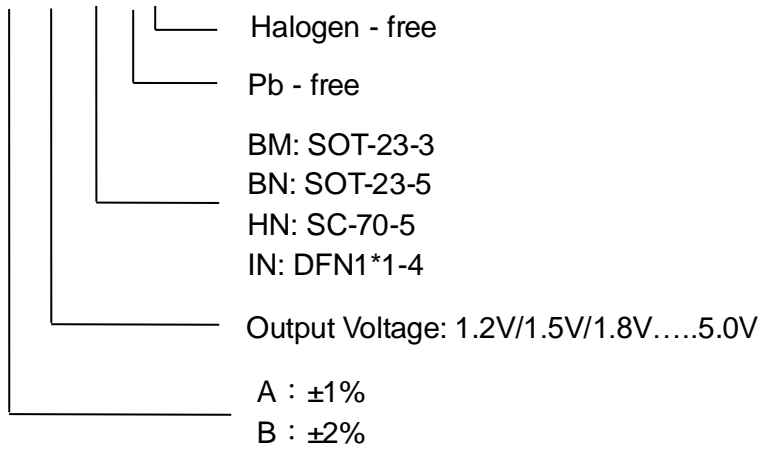


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Ordering information

ACE555 X XX XX + H





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Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Technology Co., LTD. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.