



ACE557U

250mA, Low Consumption, Wide Input Voltage Linear Regulator

Description

The ACE557U series are a group of positive voltage output, high precise and low power consumption voltage regulators. The maximum input voltage is 16V. The output voltages are available in 100mV steps within a range of 2.5V to 5V. It can also be customized on request.

The ACE557U series have very low power consumption ($I_Q=2\mu A$) which can greatly extend battery life. The ACE557U series are available in SOT23-5 & SOT89-5 packages.

Features

- Maximum Input Voltage: 16V
- Low Quiescent Current: $2\mu A$ (Typ.)
- Maximum Output Current: 250mA
- Low Dropout: 210mV@100mA ($V_{OUT}=3.3V$)
420mV@200mA ($V_{OUT}=3.3V$)
- Low Temperature Coefficient: $\pm 150ppm/^{\circ}C$
- Output Current Limit: 330mA@ $V_{OUT}=3.3V$

Application

- Battery-Powered Equipment
- Power Management of MP3, PDA, DSC, Mouse, PS2 Games
- Reference Voltage Source
- Hand-Hold Equipment

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
V_{IN}	Max Input Voltage	18	V
Power dissipation	SOT-23-5	P_D	300 mW
	SOT-89-5	P_D	1200 mW
Operating Junction Temperature	T_J	125	$^{\circ}C$
Ambient Temperature	T_A	-40 to 85	$^{\circ}C$
Storage Temperature Range	T_{STG}	-40 to 150	$^{\circ}C$
Lead Temperature for Soldering 10 Seconds	T_L	260	$^{\circ}C$

Recommended Work Condition

Symbol	Parameter	Value	Unit
V_{IN}	Max Input Voltage	16	V

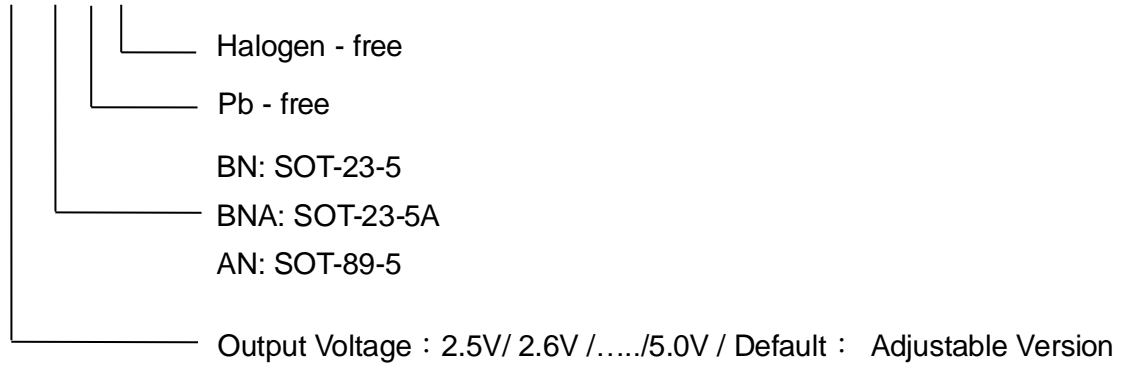


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Ordering information

ACE557U 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.

ACE Technology Co., LTD.
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