



ACE5227C

600mA Fast Response Linear Regulator

Description

ACE5227C series is a group of positive voltage output, low power consumption, low dropout voltage regulator.

ACE5227C can provide output value adjustable from 0.8V to 5.0V.

ACE5227C includes high accuracy voltage reference, error amplifier, and current limit circuit and output driver module with discharge capability.

ACE5227C has excellent load and line transient response and good temperature characteristics, which can assure the stability of chip and power system. It uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$. And it also provides fold back short-circuit protection, thermal protection and output current limit function.

ACE5227C is available in SOT23-5 and SC70-5 packages which are lead free.

Features

- Low Power Consumption: 40uA (Typ.)
- Maximum output current: 600mA
- Low dropout Voltage:
170mV @ I_{out}=300mA, V_{out}=3.3V
355mV @ I_{out}=600mA, V_{out}=3.3V
- Build-in chip enable and discharge circuit
- Input voltage range: 2.5~6V
- Adjustable Output from 0.8V to 5.0V
- Output Voltage Accuracy: $\pm 2\%$
- Output current limit: 800mA (Typ.)
- OCP/SCP/TSD protection

Application

- Battery-Powered Equipment's
- Hand-Held Electrical Appliances
- Portable Communication Equipment's

Recommended Work Conditions

Parameter	Value
Input Voltage Range	2.5V to 6V
Ambient Temperature	-40°C –85°C



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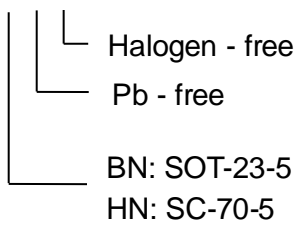
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Absolute Maximum Ratings

Parameter		Value
Max Input Voltage		8V
Operating Junction Temperature(Tj)		150°C
Ambient Temperature(Ta)		-40°C-85°C
Power Dissipation	SOT-23-5	400mW
	SC-70-5	400mW
Storage Temperature(Ts)		-40°C-150°C
Lead Temperature & Time		260°C,10S

Ordering Information

ACE5227C 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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