

## SP Amp Current Shunt Monitor Single 18V 5-Pin SOT-23 T/R

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>	<input type="text" value="INA196AIDBVR Image"/> Images are for reference only <a href="#">Inquiry</a>
<b>Package/Case:</b>	SOT23-5	
<b>Product Type:</b>	Amplifier ICs	
<b>RoHS:</b>	RoHS Compliant/Lead free 	
<b>Lifecycle:</b>	Active	

### General Description

The INA193–INA198 family of current shunt monitors with voltage output can sense drops across shunts at common-mode voltages from  $-16\text{ V}$  to  $+80\text{ V}$ , independent of the INA19x supply voltage. They are available with three output voltage scales: 20 V/V, 50 V/V, and 100 V/V. The 500 kHz bandwidth simplifies use in current control loops. The INA193–INA195 devices provide identical functions but alternative pin configurations to the INA196–INA198 devices, respectively.

The INA193–INA198 devices operate from a single 2.7-V to 18-V supply, drawing a maximum of 900  $\mu\text{A}$  of supply current. They are specified over the extended operating temperature range ( $-40^\circ\text{C}$  to  $+125^\circ\text{C}$ ), and are offered in a space-saving SOT-23 package.

### Key Features

Wide Common-Mode Voltage:

Low Error: 3.0% Over Temp (maximum)

Bandwidth: Up to 500 kHz

Three Transfer Functions Available: 20 V/V,

50 V/V, and 100 V/V

Quiescent Current: 900  $\mu\text{A}$  (maximum)

Complete Current Sense Solution

Welding Equipment

Notebook Computers

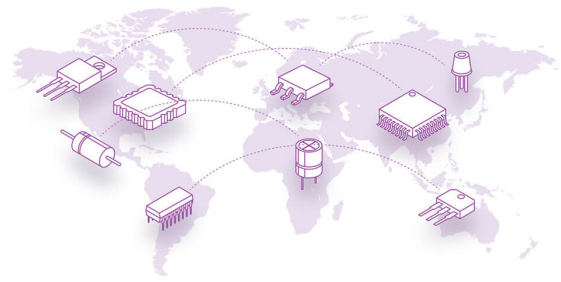
Cell Phones

Telecom Equipment

Automotive

Power Management

Battery Chargers



## Recommended For You

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### **INA3221AIRGVR**

Texas Instruments, Inc  
VQFN16

### **INA200AQDGKRQ1**

Texas Instruments, Inc  
MSOP8

### **INA196AIDBVT**

Texas Instruments, Inc  
SOT23-5

### **INA220AIDGSR**

Texas Instruments, Inc  
MSOP10

### **INA198AQDBVRQ1**

Texas Instruments, Inc  
SOT23-5

### **INA228AQDGSRQ1**

Texas Instruments, Inc  
VSSOP-10

### **INA237AQDGSRQ1**

Texas Instruments, Inc  
VSSOP10

### **INA168QDBVRQ1**

Texas Instruments, Inc  
SOT23-5

### **INA226AQDGSRQ1**

Texas Instruments, Inc  
VSSOP10

### **INA3221AQRGVRQ1**

Texas Instruments, Inc  
QFN16

### **INA195AIDBVR**

Texas Instruments, Inc  
SOT23-5

### **INA197AIDBVT**

Texas Instruments, Inc  
SOT23-5

### **INA213AQDCKRQ1**

Texas Instruments, Inc  
SC70-6

### **INA300AQDGSRQ1**

Texas Instruments, Inc  
VSSOP-10

### **INA193AQDBVRQ1**

Texas Instruments, Inc  
SOT23-5