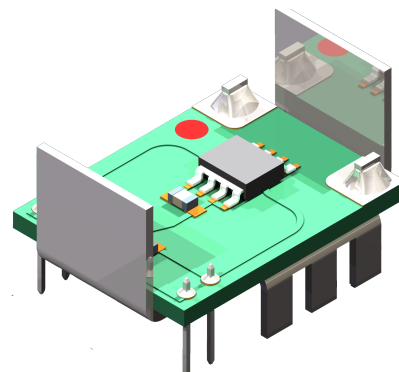


## ISE Current Sense Transducers: ISE-XXX-A-800

For the electronic measurement of AC and DC Signals



Part Number	$I_p$	Output Slope*
ISE-050-A-800	+/- 50	40.000 mV/A
ISE-100-A-800	+/- 100	20.000 mV/A
ISE-150-A-800	+/- 150	13.333 mV/A
ISE-200-A-800	+/- 200	10.000 mV/A

### Features

- ◆ Fast Response Time
- ◆ Small Size
- ◆ PCB Mounting

Supply Voltage ( $V_{dd}$ )	5V(+/- 0.5 V)@12mA
Secondary Output Voltage	Ratiometric to Input
Output at + $I_p$	90% of $V_{dd}$
Output at - $I_p$	10% of $V_{dd}$
Output at 0A	50% of $V_{dd}$
Max. Clamped Output, High	98% of $V_{dd}$
Max. Clamped Output, Low	5% of $V_{dd}$
Output Current	+/- 2 mA
Response Time	3 $\mu$ S

### IS Family Features

- ◆ Factory Programmable
- ◆ Customizable Current Range
- ◆ Wideband DC to 200 kHz
- ◆ Analog Output

### Applications

- ◆ DC/AC Converters
- ◆ DC/DC Converters
- ◆ Battery Management
- ◆ AC and DC Motor Drives
- ◆ Welding Applications
- ◆ Solar Applications

### Accuracy

Accuracy ( $I_p$ )**	<= 0.6 %
Linearity Error	<= 0.1 %
DC Offset Accuracy	<= 10 mV; <= 0.25 %
DC Offset Hysteresis	<= 10 mV; <= 0.25 %
DC Offset Thermal Drift	<= 0.1 mV/°C

### General Data

Ambient Operating Temperature	-40 to +130 °C
Ambient Storage Temperature	-40 to +130 °C
Creepage Distance	1.4mm
Clearance Distance	1.4mm
Safety Standard	EN50178
EMC Standard	EN61000
CTI	600 V
UL File	Pending

### Pin Configuration

- 1 -  $V_{SS}$  (Ground)
- 2 -  $V_{DD}$  (Supply)
- 3 & 4 - Busbar Termination
- 5 - Output
- 6 -  $V_{SS}$  (Ground)

### Analog Output Notes

1. For pull down resistor is between Pin 5 and Pin 1 or 6
2. For pull up resistor is between Pin 5 and Pin 2



**Absolute Maximums**

Overvoltage $V_{DD}$ Protection.	+10 V
Reverse $V_{DD}$ Protection	-10 V
Output Voltage Max.	+10 V
Output Current Max.	+/- 70 mA
Reverse Output Voltage Max.	- 0.3 V
Reverse Output Current Max.	-50 mA

**Notes**

- \* All specifications at 25°C and assumes 5V<sub>DD</sub>.
- \* Specifications dependent on mechanical attachment.
- \* Specifications are % full scale.
- \* Output slope is dependent on V<sub>DD</sub>.

**Dimensions: ISE Series** (in mm, 1mm = 0.0394 inch)

