

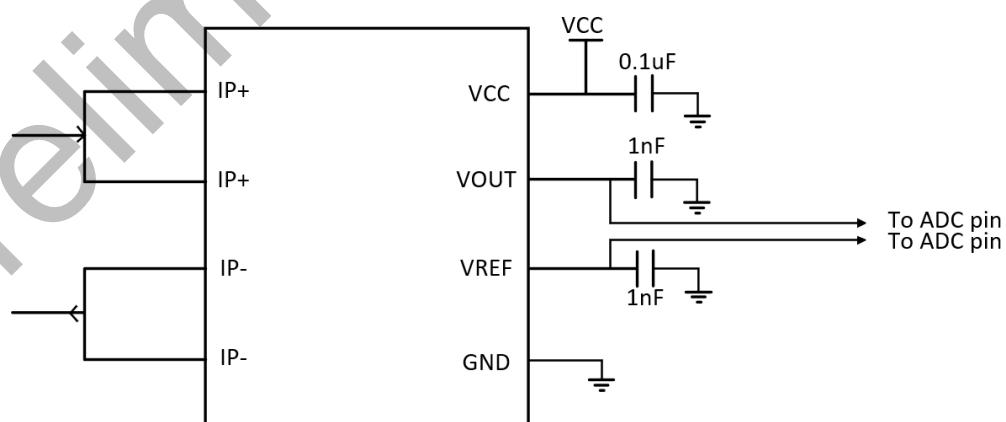
## Features

- High Accuracy · Large Current
  - 0~50A Current Sensor
  - Low Primary Impedance:  $1.2m\Omega$
  - $V_{OE}$  Temperature Drift:  $\pm 5mV$
  - Sensitivity Temperature Drift:  $\pm 1\%$
  - Linearity Error:  $\pm 0.2\%$
- High Bandwidth · Fast Response
  - Bandwidth: 250kHz
  - Typical response time: 1.6us
- High Anti-interference · Strengthen Insolution
  - Differential Hall effectively resists external magnetic field interference
  - High Isolated Voltage: 3kV
  - Compatible with 3.3V/5V power supply
  - Ratiometric/fixed output

## SOIC-8 Package



## Application Circuits



Typical Application Circuit Diagram

## Description

*PIC1400 series is an open loop hall current sensor that set high accuracy · high Bandwidth · fast response · high linearity · low temperature drift and others advantage in one. PIC1400 provides 0~50A current measurement range. Meanwhile, it will keep a low sensitivity drift ( $\pm 1\% @ -40^{\circ}C \sim 125^{\circ}C$ ) at full temperature range with  $3\sigma$  data. PIC1400 provides a new solution in high performance current sensor area. PIC1400 adopts differential hall structure inside, which can effectively suppress the external stray magnetic field, strong anti-interference ability, and ensure accurate measurement under complex magnetic noise environment.*

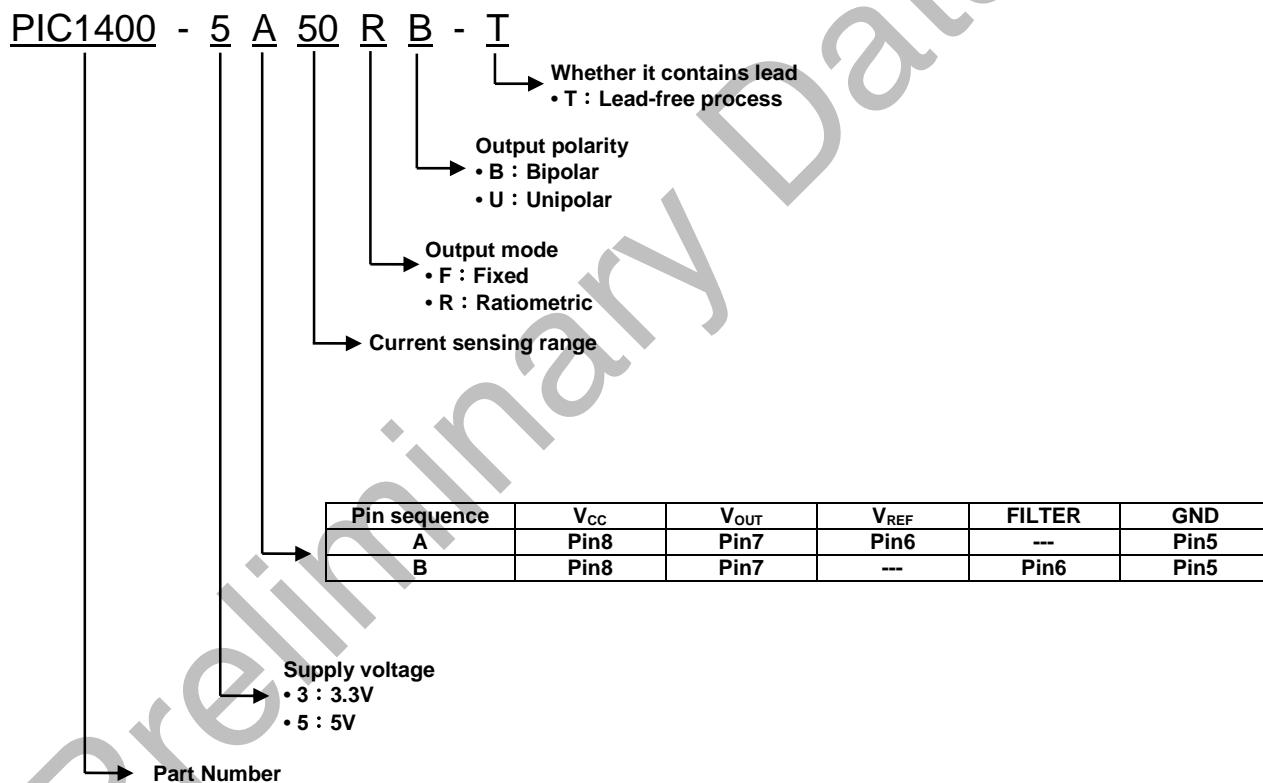
## Applications

- Solar power
- Industrial power supply
- Motor control
- Charging pile

**Selection Guide**

Part Number	Output	I <sub>PR(A)</sub>	Sensitivity(mV/A)		Temp. Range T <sub>A</sub> (°C)	Packing
			VCC=3.3V	VCC=5V		
PIC1400-*A10FB-T	Fixed Output Mode	±10	132	200	-40°C to 125°C	Reel package, 3000pcs/reel.
PIC1400-*A20FB-T		±20	66	100		
PIC1400-*A30FB-T		±30	44	66.7		
PIC1400-*A30FU-T		30	88	133.3		
PIC1400-*A40FB-T		±40	33	50		
PIC1400-*A50FB-T		±50	26.4	40		
PIC1400-*A10RB-T	Ratiometric Output Mode	±10	132	200	-40°C to 125°C	Reel package, 3000pcs/reel.
PIC1400-*A20RB-T		±20	66	100		
PIC1400-*A30RB-T		±30	44	66.7		
PIC1400-*A30RU-T		30	88	133.3		
PIC1400-*A40RB-T		±40	33	50		
PIC1400-*A50RB-T		±50	26.4	40		

The continuous test at 25° C supports 20A. If the current test range is increased, take heat dissipation measures. 20A and above have unidirectional output mode,new range will not be notified.

**Part Number Specification**


### Absolute Maximum Rating

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
Supply Voltage	V <sub>CC</sub>	V	T <sub>A</sub> =25°C	-0.3	---	6.5
Output Current	I <sub>OUTmax</sub>	mA	T <sub>A</sub> =25°C	-45	---	45
Proportional output	V <sub>OUTmax</sub>	V	T <sub>A</sub> =25°C	0.1	---	V <sub>CC</sub> - 0.1
Storage temperature	T <sub>S</sub>	°C	---	-55	---	150
Operating Ambient Temperature	T <sub>A</sub>	°C	---	-40	---	125
Maximum Junction Temperature	T <sub>Jmax</sub>	°C	---	---	---	165

Note : Used over Absolute Maximum Rating will destroy the device. Working at Absolute Maximum Rating maybe reduce the device life.

### ESD Characteristics

Characteristic	Symbol	Unit	Test Conditions	Min.
Human Body Model	V <sub>HBM</sub>	kV	ESD between any two pins	±4
Charged Device Model	V <sub>CDM</sub>	kV		±1

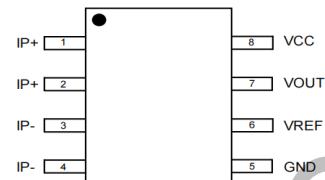
### Isolation Characteristics

Characteristic	Symbol	Unit	Test Conditions	Min.
Dielectric Surge Strength Test Voltage	V <sub>SURGE</sub>	V	Tested ±5 pulses at 2/minute in compliance to IEC 61000-4-5 1.2 µs (rise) / 50 µs (width).	4000
Dielectric Strength Test Voltage	V <sub>ISO</sub>	V <sub>RMS</sub>	Agency type-tested for 60 seconds per UL 60950-1. Production tested at 3500 VRMS for 1 second, in accordance with UL 60950-1 .	3500
Working Voltage for Basic Isolation	V <sub>WVBI</sub>	V <sub>PK</sub> or V <sub>CC</sub>	Maximum approved working voltage for basic (single) isolation according to UL 60950-1 .	600
		V <sub>RMS</sub>		424
Clearance	D <sub>CL</sub>	mm	Minimum distance through air from IP leads to signal leads.	4
Creepage	D <sub>CR</sub>	mm	Minimum distance along package body from IP leads to signal leads	4
Distance Through Insulation	DTI	mm	Minimum internal distance through insulation	90
comparative tracking index	CTI	V	Material Group I	>600

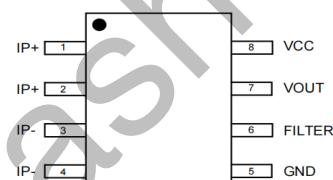
## Terminal list & Functional Block

Mode A :

Number	Name	Description
1,2	IP+	Primary current in
3,4	IP-	Primary current out
5	GND	Signal ground terminal
6	VREF	Reference voltage
7	VOUT	Analog output signal
8	VCC	Device power supply terminal



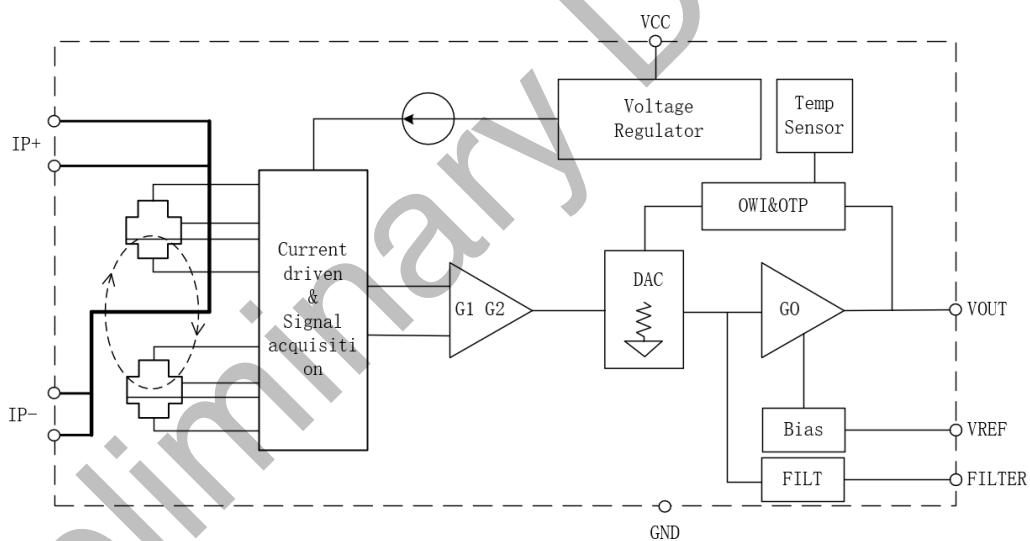
Mode A Pin Diagram



Mode B Pin Diagram

Mode B :

Number	Name	Description
1,2	IP+	Primary current in
3,4	IP-	Primary current out
5	GND	Signal ground terminal
6	FILTER	Bandwidth setting
7	VOUT	Analog output signal
8	VCC	Device power supply terminal



Functional Block Diagram

**Common Electrical Characteristics**

Unless otherwise specified, refers to general test conditions:  $T_A=25^\circ\text{C}$  ·  $V_{CC}=5\text{V}$  ·  $C_L=0.47\text{nF}$  ·  $C_{VCC}=100\text{nF}$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
Supply Voltage	$V_{CC}$	V	$V_{CC}=3.3\text{V}$	3	3.3	3.6
			$V_{CC}=5\text{V}$	4.5	5	5.5
Supply Current	$I_{CC}$	mA	no-load, $V_{CC}=3.3\text{V}$	---	7.5	10
			no-load, $V_{CC}=5\text{V}$	---	10	15
Primary Conductor Resistance	$R_P$	$\text{m}\Omega$	---	---	1.2	---
Power-On Time	$T_{PO}$	ms	Chip power-on ( $V_{CC}>4.5\text{V}$ ) , $V_{OUT}$ and $V_{REF}$ stable time	---	1	---
Output Capacitance Load	$C_L$	nF	---	---	---	10
Output Resistive Load	$R_L$	$\text{k}\Omega$	---	4.7	---	---
Reference load resistance	$R_{LREF}$	$\text{k}\Omega$	---	10	---	---
Output voltage range	$V_S$	V	$T_A=25^\circ\text{C}$ · $C_L=1\text{nF}$ · $R_L=10\text{k}\Omega$ to $V_{CC}$ or $V_{GND}$	0.1	---	$V_{CC} - 0.1$
Common Mode Field Rejection Ratio	CMFR	dB	---	---	40	---
Rise Time	$T_R$	$\mu\text{s}$	---	---	1.2	---
Response Time	$T_{RESPONSE}$	$\mu\text{s}$	---	---	1.6	---
Bandwidth	$B_W$	kHz	---	---	250	---
Noise	$V_N$	mVrms	---	---	8	---
Nonlinearity	$E_{LIN}$	%	---	---	$\pm 0.1$	---
Reference voltage	$V_{REF}$	V	Fixed output mode · Bidirectional output · $V_{CC}=5\text{V}$	2.49	2.5	2.51
			Fixed output mode · Bidirectional output · $V_{CC}=3.3\text{V}$	1.64	1.65	1.66
			Fixed output mode · Unidirectional output · $V_{CC}=5\text{V}$	0.49	0.5	0.51
			Ratiometric output mode	---	$V_{CC} \times 0.5$	---
Ratiometric output sensitivity error	$S_{ERR}$	%	$V_{CC}=3.0\sim 3.6\text{V}$ or $V_{CC}=4.5\sim 5.5\text{V}$	---	0.7	---
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax}$ · $T_A=-40^\circ\text{C} \sim 125^\circ\text{C}$	-1.5	$\pm 0.6$	1.5
Voltage Offset Error	$V_{OE}$	mV	$I_P=0\text{A}$ · $T_A=-40^\circ\text{C} \sim 125^\circ\text{C}$	-10	$\pm 5$	10

Note : The data is obtained from laboratory testing with  $3\sigma$  data

**PIC1400-\*A10FB-T/RB-T Performance Characteristic ( $I_{PR} = \pm 10A$ )**

Unless otherwise specified, refers to general test conditions:  $T_A=25^\circ C$  ·  $V_{CC}=5V$  ·  $C_L=0.47nF$  ·  $C_{VCC}=100nF$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A	---	-10	---	10
Sensitivity( $V_{CC}=3.3V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	132	---
Sensitivity( $V_{CC}=5V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	200	---
Zero Current Output Voltage	$V_{OUT(Q)}$	V	Bidirectional · $I_{PR}=0A$ · $V_{CC}=3.3V$ · fixed output F	1.64	1.65	1.66
			Bidirectional · $I_{PR}=0A$ · $V_{CC}=5V$ · fixed output F	2.49	2.5	2.51
			Bidirectional · $I_{PR}=0A$ · Ratiometric output R	---	$V_{CC} \times 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-2	$\pm 0.8$	2
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-2	$\pm 1$	2
<b>Total Output Error Components: <math>E_{TOT} = (V_{OUT} - V_{OUTideal}) / (Sens_{ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-1.5	$\pm 0.6$	1.5
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-1.5	$\pm 0.6$	1.5
Voltage Offset Error	$V_{OE}$	mV	$I_P=0A \cdot T_A=25^\circ C \sim 125^\circ C$	---	$\pm 8$	---
			$I_P=0A \cdot T_A=-40^\circ C \sim 25^\circ C$	---	$\pm 8$	---
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---

**PIC1400-\*A20FB-T/RB-T Performance Characteristic ( $I_{PR} = \pm 20A$ )**

Unless otherwise specified, refers to general test conditions:  $T_A=25^\circ C$  ·  $V_{CC}=5V$  ·  $C_L=0.47nF$  ·  $C_{VCC}=100nF$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A	---	-20	---	20
Sensitivity( $V_{CC}=3.3V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	66	---
Sensitivity( $V_{CC}=5V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	100	---
Zero Current Output Voltage	$V_{OUT(Q)}$	V	Bidirectional · $I_{PR}=0A$ · $V_{CC}=3.3V$ · fixed output F	1.64	1.65	1.66
			Bidirectional · $I_{PR}=0A$ · $V_{CC}=5V$ · fixed output F	2.49	2.5	2.51
			Bidirectional · $I_{PR}=0A$ · Ratiometric output R	---	$V_{CC} \times 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-2	$\pm 0.8$	2
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-2	$\pm 1$	2
<b>Total Output Error Components: <math>E_{TOT} = (V_{OUT} - V_{OUTideal}) / (Sens_{ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-1.5	$\pm 0.6$	1.5
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-1.5	$\pm 0.6$	1.5
Voltage Offset Error	$V_{OE}$	mV	$I_P=0A \cdot T_A=25^\circ C \sim 125^\circ C$	---	$\pm 5$	---
			$I_P=0A \cdot T_A=-40^\circ C \sim 25^\circ C$	---	$\pm 5$	---
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---

**PIC1400-\*A30FB-T/RB-T Performance Characteristic ( $I_{PR} = \pm 30A$ )**

Unless otherwise specified, refers to general test conditions:  $T_A=25^\circ C$  ·  $V_{CC}=5V$  ·  $C_L=0.47nF$  ·  $C_{VCC}=100nF$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A	---	-30	---	30
Sensitivity( $V_{CC}=3.3V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	44	---
Sensitivity( $V_{CC}=5V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	66.7	---
Zero Current Output Voltage	$V_{OUT(Q)}$	V	Bidirectional · $I_{PR}=0A$ · $V_{CC}=3.3V$ · fixed output F	1.64	1.65	1.66
			Bidirectional · $I_{PR}=0A$ · $V_{CC}=5V$ · fixed output F	2.49	2.5	2.51
			Bidirectional · $I_{PR}=0A$ · Ratiometric output R	---	$V_{CC} \times 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-2	$\pm 0.8$	2
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-2	$\pm 1$	2
<b>Total Output Error Components: <math>E_{TOT} = (V_{OUT} - V_{OUTideal}) / (Sens_{ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-1.5	$\pm 0.6$	1.5
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-1.5	$\pm 0.6$	1.5
Voltage Offset Error	$V_{OE}$	mV	$I_P=0A \cdot T_A=25^\circ C \sim 125^\circ C$	---	$\pm 5$	---
			$I_P=0A \cdot T_A=-40^\circ C \sim 25^\circ C$	---	$\pm 5$	---
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---

**PIC1400-\*A30FU-T/RU-T Performance Characteristic ( $I_{PR} = 30A$ )**

Unless otherwise specified, refers to general test conditions:  $T_A=25^\circ C$  ·  $V_{CC}=5V$  ·  $C_L=0.47nF$  ·  $C_{VCC}=100nF$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A	---	0	---	30
Sensitivity( $V_{CC}=3.3V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	88	---
Sensitivity( $V_{CC}=5V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	133.3	---
Zero Current Output Voltage	$V_{IOUT(Q)}$	V	Bidirectional · $I_{PR}=0A$ · $V_{CC}=3.3V$ · fixed output F	0.32	0.33	0.34
			Bidirectional · $I_{PR}=0A$ · $V_{CC}=5V$ · fixed output F	0.49	0.5	0.51
			Bidirectional · $I_{PR}=0A$ · Ratiometric output R	---	$V_{CC} \times 0.1$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-2	$\pm 0.8$	2
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-2	$\pm 1$	2
<b>Total Output Error Components: <math>E_{TOT} = (V_{IOUT} - V_{IOUTideal}) / (Sens_{ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-1.5	$\pm 0.6$	1.5
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-1.5	$\pm 0.6$	1.5
Voltage Offset Error	$V_{OE}$	mV	$I_P=0A \cdot T_A=25^\circ C \sim 125^\circ C$	---	$\pm 5$	---
			$I_P=0A \cdot T_A=-40^\circ C \sim 25^\circ C$	---	$\pm 5$	---
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---

**PIC1400-\*A40FB-T/RB-T Performance Characteristic ( $I_{PR} = \pm 40A$ )**

Unless otherwise specified, refers to general test conditions:  $T_A=25^\circ C$  ·  $V_{CC}=5V$  ·  $C_L=0.47nF$  ·  $C_{VCC}=100nF$

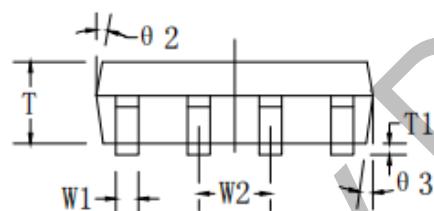
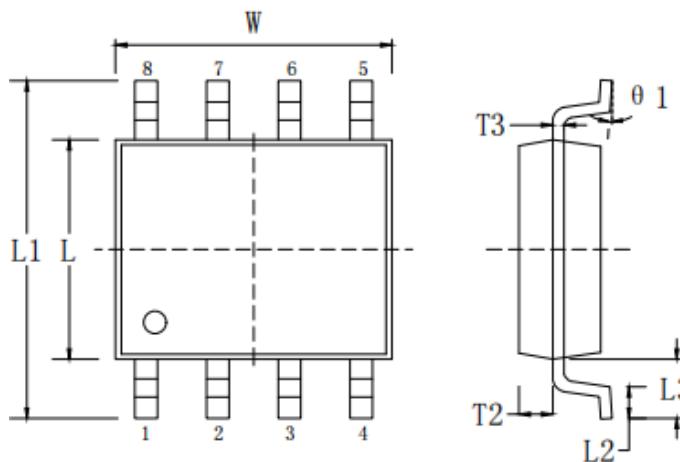
Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A	---	-40	---	40
Sensitivity( $V_{CC}=3.3V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	33	---
Sensitivity( $V_{CC}=5V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	50	---
Zero Current Output Voltage	$V_{OUT(Q)}$	V	Bidirectional · $I_{PR}=0A$ · $V_{CC}=3.3V$ · fixed output F	1.64	1.65	1.66
			Bidirectional · $I_{PR}=0A$ · $V_{CC}=5V$ · fixed output F	2.49	2.5	2.51
			Bidirectional · $I_{PR}=0A$ · Ratiometric output R	---	$V_{CC} \times 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-2	$\pm 1$	2
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-2	$\pm 1$	2
<b>Total Output Error Components: <math>E_{TOT} = (V_{OUT} - V_{OUTideal}) / (Sens_{ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-1.5	$\pm 0.6$	1.5
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-1.5	$\pm 0.6$	1.5
Voltage Offset Error	$V_{OE}$	mV	$I_P=0A \cdot T_A=25^\circ C \sim 125^\circ C$	---	$\pm 5$	---
			$I_P=0A \cdot T_A=-40^\circ C \sim 25^\circ C$	---	$\pm 5$	---
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---

**PIC1400-\*A50FB-T/RB-T Performance Characteristic ( $I_{PR} = \pm 50A$ )**

Unless otherwise specified, refers to general test conditions:  $T_A=25^\circ C$  ·  $V_{CC}=5V$  ·  $C_L=0.47nF$  ·  $C_{VCC}=100nF$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A	---	-50	---	50
Sensitivity( $V_{CC}=3.3V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	26.4	---
Sensitivity( $V_{CC}=5V$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	40	---
Zero Current Output Voltage	$V_{OUT(Q)}$	V	Bidirectional · $I_{PR}=0A$ · $V_{CC}=3.3V$ · fixed output F	1.64	1.65	1.66
			Bidirectional · $I_{PR}=0A$ · $V_{CC}=5V$ · fixed output F	2.49	2.5	2.51
			Bidirectional · $I_{PR}=0A$ · Ratiometric output R	---	$V_{CC} \times 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-2	$\pm 1$	2
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-2	$\pm 1$	2
<b>Total Output Error Components: <math>E_{TOT} = (V_{OUT} - V_{OUTideal}) / (Sens_{ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax} \cdot T_A=25^\circ C \sim 125^\circ C$	-1.5	$\pm 0.8$	1.5
			$I_P=I_{PRmax} \cdot T_A=-40^\circ C \sim 25^\circ C$	-1.5	$\pm 0.8$	1.5
Voltage Offset Error	$V_{OE}$	mV	$I_P=0A \cdot T_A=25^\circ C \sim 125^\circ C$	---	$\pm 5$	---
			$I_P=0A \cdot T_A=-40^\circ C \sim 25^\circ C$	---	$\pm 5$	---
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^\circ C$ test	---	$\pm 1$	---

## SOIC-8 PACKAGE INFORMATION



Symbol	Dimensions In Millimeters	
	Min	Max
<b>W</b>	<b>4.800</b>	<b>5.000</b>
<b>W1</b>	<b>0.360</b>	<b>0.460</b>
<b>W2</b>	<b>1.170</b>	<b>1.370</b>
<b>L</b>	<b>3.800</b>	<b>4.000</b>
<b>L1</b>	<b>5.800</b>	<b>6.200</b>
<b>L2</b>	<b>0.350</b>	<b>0.850</b>
<b>L3</b>	<b>0.950</b>	<b>1.150</b>
<b>T</b>	<b>1.350</b>	<b>1.550</b>
<b>T1</b>	<b>0.050</b>	<b>0.200</b>
<b>T2</b>	<b>0.550</b>	<b>0.650</b>
<b>T3</b>	<b>0.170</b>	<b>0.250</b>
<b>θ1</b>	<b>0°</b>	<b>8°</b>
<b>θ2</b>	<b>6°</b>	<b>14°</b>
<b>θ3</b>	<b>4°</b>	<b>12°</b>