

## Features

- High Accuracy · Large Current
  - 0~150A Current sensor
  - Low primary conductor resistance: 0.27mΩ
  - Typical VOE temperature drift: ±2mV
  - Typical sensitivity temperature drift: ±0.2%
  - Typical linearity error: ±0.05%
- High Bandwidth · Fast Response
  - Typical Bandwidth: 250kHz
  - Typical response time: 1.2μs
- High Anti-interference · High Isolation
  - Differential Hall effectively resists external magnetic field interference
  - Isolated voltage: 5000Vrms
  - Compatible with 3.3V/5V power supply
  - Ratiometric/fixed output

## Description

The PIC1200 series is an open loop hall current sensor that sets high accuracy, high bandwidth, fast response, high linearity, low temperature drift and other advantages. PIC1200 provides 0~150A current measurement range. PIC1200 provides a new solution in high performance current sensor area, besides, differential hall sets can immune stray field.

## Applications

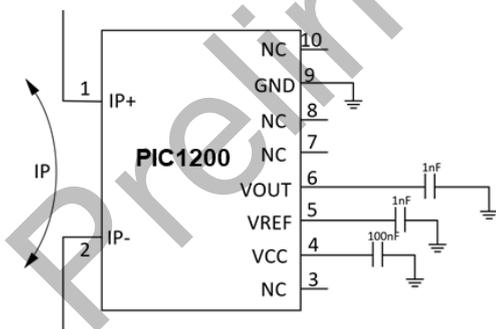
- White Goods
- Variable-frequency Drive
- Power Supply
- Motor Control

## Package



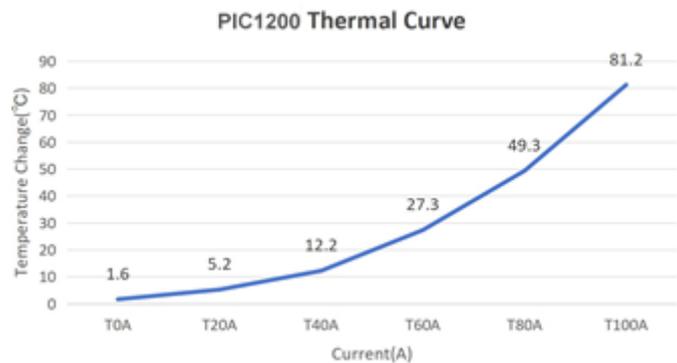
SOIC-10

## Application Circuits



Typical Application Circuit Diagram  
(Pin sequence : TypeB)

## Thermal Curve



Thermal Curve is measured with the room temperature and no wind. The thermal response is highly depends on PCB layout, cooling techniques, copper thickness.

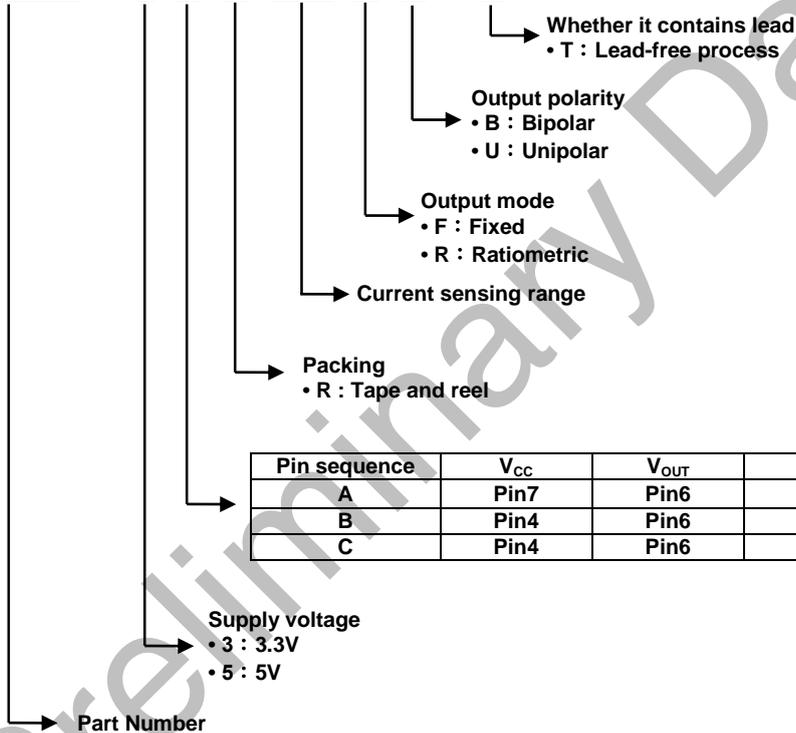
**Selection Guide**

Part Number	Output Mode	IPR(A)	Sensitivity(mV/A)		Operating Temperature	Packing
			*=3	*=5		
PIC1200-*AR050FB-T	Fixed Output Mode	±50	26.4	40	-40°C ~ 125°C	Tape and reel, 1000 pieces per reel
PIC1200-*AR080FB-T		±80	16.5	25		
PIC1200-*AR100FB-T		±100	13.2	20		
PIC1200-*AR100FU-T		100	26.4	40		
PIC1200-*AR150FB-T		±150	8.8	13.33		
PIC1200-*AR050RB-T	Ratiometric Output Mode	±50	26.4	40		
PIC1200-*AR080RB-T		±80	16.5	25		
PIC1200-*AR100RB-T		±100	13.2	20		
PIC1200-*AR100RU-T		100	26.4	40		
PIC1200-*AR150RB-T		±150	8.8	13.33		

Note: Continuous testing at 25°C supports 100A, if the test range increases or the ambient temperature rises, please refer to the derating curve in application manuals to take heat dissipation measures. 50A and above have unidirectional output mode, new range will be added without notice.

**Part Number Specification**

PIC1200 - 5 A R 100 R B - T



Pin sequence	V <sub>CC</sub>	V <sub>OUT</sub>	V <sub>REF</sub>	GND
A	Pin7	Pin6	Pin5	Pin3、10
B	Pin4	Pin6	Pin5	Pin9
C	Pin4	Pin6	Pin7	Pin9

**Absolute Maximum Rating**

Characteristic	Symbol	Unit	Min.	Typ.	Max.
Supply Voltage	V <sub>CC</sub>	V	-0.3	---	6.5
Output Current	I <sub>OUTmax</sub>	mA	-45	---	45
Proportional output	V <sub>OUTmax</sub>	V	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: Operation outside the absolute maximum ratings may cause permanent device damage. Absolute maximum ratings do not imply functional operation of the device at these or any other conditions beyond those listed under recommended operating conditions. If used outside the recommended operating conditions but within the absolute maximum ratings, the device may not be fully functional, and this may affect device reliability, functionality, performance, and shorten the device lifetime

**ESD Characteristics**

Characteristic	Symbol	Unit	Test Conditions	Value
Human Body Model	V <sub>HBM</sub>	kV	ESD between any two pins	6
Charged Device Model	V <sub>CDM</sub>	kV		2

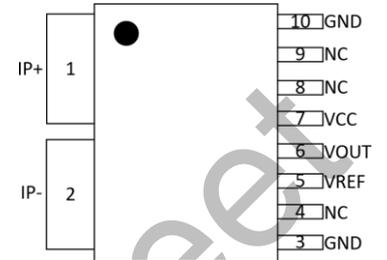
**Isolation Characteristics**

Characteristic	Symbol	Unit	Test Conditions	Value
Dielectric Surge Voltage	V <sub>SURGE</sub>	V	Test method refers to IEC61000-4-5, 1.2µs/50µs waveform.	10000
Dielectric Strength Test Voltage	V <sub>ISO</sub>	V <sub>RMS</sub>	60s, 50Hz isolation withstand voltage parameters, according to UL62368-1, test 6kV/1s before delivery to verify the insulation performance, and verify the partial discharge is less than 5pc.	5000
Working Voltage for Basic Isolation	V <sub>VVBI</sub>	V <sub>PK</sub> or V <sub>CC</sub>	Maximum approved working voltage for basic (single) isolation according to UL 60950-1 (edition 2).	1550
		V <sub>RMS</sub>		1097
Creepage	D <sub>CR</sub>	mm	Shortest terminal-to-terminal distance across the package surface.	8.2
Comparative Tracking Index	C <sub>TI</sub>	V	Material Group II	>600

**Terminal list**

**TypeA :**

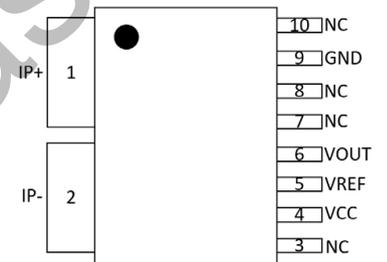
Number	Name	Description
1	IP+	Current flows into the chip, positive direction
2	IP-	Current flows out of the chip, negative direction
3,10	GND	ground terminal
5	VREF	Zero current reference voltage
6	VOOUT	Analog output signal
7	VCC	Device power supply terminal
4,8,9	NC	No Connect



Terminal Diagram (TypeA)

**TypeB :**

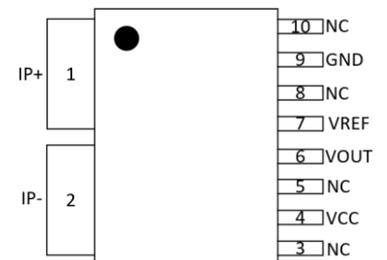
Number	Name	Description
1	IP+	Current flows into the chip, positive direction
2	IP-	Current flows out of the chip, negative direction
9	GND	ground terminal
5	VREF	Zero current reference voltage
6	VOOUT	Analog output signal
4	VCC	Device power supply terminal
3,7,8,10	NC	No Connect



Terminal Diagram (TypeB)

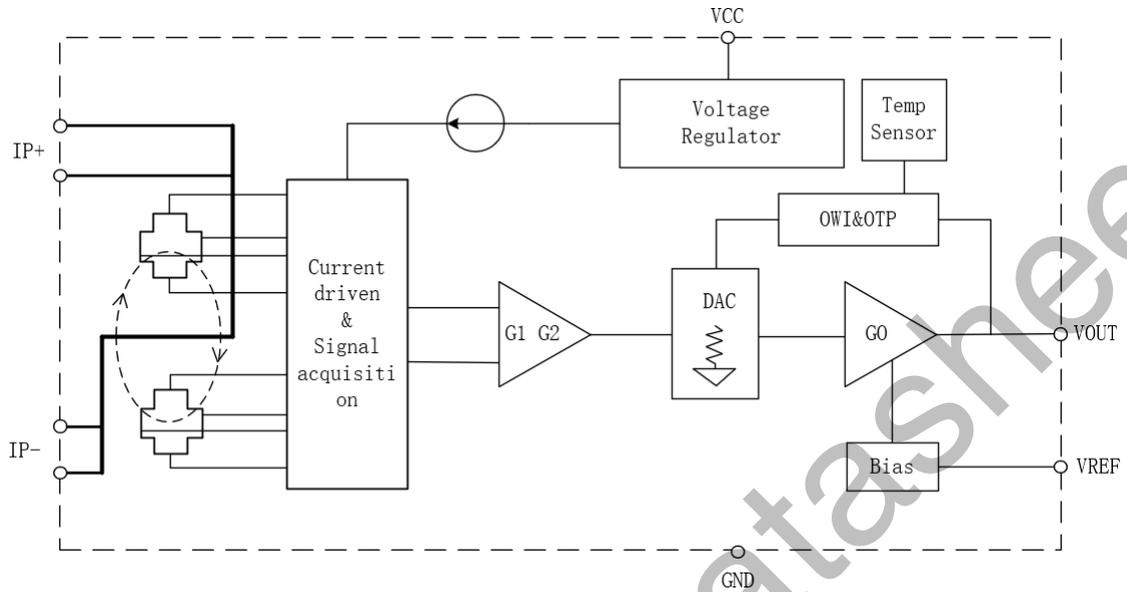
**TypeC :**

Number	Name	Description
1	IP+	Current flows into the chip, positive direction
2	IP-	Current flows out of the chip, negative direction
9	GND	ground terminal
7	VREF	Zero current reference voltage
6	VOOUT	Analog output signal
4	VCC	Device power supply terminal
3,7,8,10	NC	No Connect



Terminal Diagram (TypeC)

Functional Block



Functional Block Diagram

Preliminary Data Sheet

**Electrical Characteristics**

 Unless otherwise specified, refers to general test conditions:  $T_A=25^{\circ}\text{C}$  ·  $V_{CC}=5\text{V}/3.3\text{V}$  ·  $C_{REF}=1\text{nF}$  ·  $C_L=1\text{nF}$  ·  $C_{VCC}=100\text{nF}$ 

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
Supply Voltage	$V_{CC}$	V	*=3	3	3.3	3.6
			*=5	4.5	5	5.5
Supply Current <sup>Note1</sup>	$I_{CC}$	mA	*=3	---	7.5	10
			*=5	---	10	15
Primary Conductor Resistance <sup>Note1</sup>	$R_P$	m $\Omega$		---	0.27	---
Power-On Time <sup>Note2</sup>	$T_{PO}$	ms	Chip power-on ( $V_{CC}>3.0\text{V}$ ), $V_{OUT}$ and $V_{REF}$ stable time	---	1	---
Output Capacitive Load <sup>Note2</sup>	$C_L$	nF		---	---	10
Output Resistive Load <sup>Note2</sup>	$R_L$	k $\Omega$		4.7	---	---
Reference Resistive Load <sup>Note2</sup>	$R_{LREF}$	$\Omega$		10	---	---
Output Voltage Range <sup>Note2</sup>	$V_S$	V	$R_L=10\text{k}\Omega$ to $V_{CC}$ or $V_{GND}$	0.1	---	$V_{CC}-0.1$
Common Mode Field Rejection Ratio <sup>Note2</sup>	CMFR	dB		---	40	---
Rise time	$T_R$	$\mu\text{s}$	100A range, small signal measurement	---	1.0	---
Response Time	$T_{RESPONSE}$	$\mu\text{s}$	100A range, small signal measurement	---	1.2	---
Internal Bandwidth	$B_W$	kHz	100A range, small signal measurement	---	250	---
Output Noise	$V_N$	mVrms	100A range, small signal measurement	---	4	---
Nonlinearity <sup>Note1</sup>	$E_{LIN}$	%		---	$\pm 0.05$	$\pm 0.2$
Reference Voltage <sup>Note1</sup>	$V_{REF}$	V	Fixed output, Bipolar, $V_{CC}=5\text{V}$	2.49	2.5	2.51
			Fixed output, Bipolar, $V_{CC}=3.3\text{V}$	1.64	1.65	1.66
			Fixed output, Unipolar, $V_{CC}=5\text{V}$	0.49	0.5	0.51
			Ratiometric output, Bipolar	---	$V_{CC}\times 0.5$	---
Ratiometric Output Sensitivity Error <sup>Note1</sup>	$S_{ERR}$	%	$V_{CC}=3.15\sim 3.45\text{V}$ or $V_{CC}=4.75\sim 5.25\text{V}$	---	0.6	---
Sensitivity Temperature Drift <sup>Note1</sup>	$dS_{ERR}$	%	$I_P=I_{PRmax}$ , $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1	$\pm 0.2$	1
Offset Temperature Drift <sup>Note1</sup>	$V_{IOUT(Q)TC}$	mV	$I_P=0\text{A}$ , $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-5	$\pm 2$	5

 Note1: These parameters are obtained from laboratory testing with  $3\sigma$  data.

Note2: These parameters are guaranteed by design.

**PIC1200-\*AR050FB-T/RB-T Performance Characteristic**

 Unless otherwise specified, refers to general test conditions:  $T_A=25^{\circ}\text{C}$  ·  $V_{CC}=5\text{V}/3.3\text{V}$  ·  $C_{REF}=1\text{nF}$  ·  $C_L=1\text{nF}$  ·  $C_{VCC}=100\text{nF}$ 

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A		-50	---	50
Sensitivity( $V_{CC}=3.3\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	26.4	---
Sensitivity( $V_{CC}=5\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	40	---
Zero Current Output Voltage	$V_{IOUT(Q)}$	V	Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=3.3\text{V}$ , Fixed output	1.64	1.65	1.66
			Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=5\text{V}$ , Fixed output	2.49	2.5	2.51
			Bipolar, $I_{PR}=0\text{A}$ , Ratiometric output	---	$V_{CC} \cdot 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.5	$\pm 0.5$	1.5
<b>Total Output Error Components: <math>E_{TOT} = (V_{IOUT} - V_{IOUTIdeal}) / (\text{Sens}_{Ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.1	$\pm 0.3$	1.1
			$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 25^{\circ}\text{C}$	-0.8	$\pm 0.3$	0.8
Offset Error <sup>Note2</sup>	$V_{OE}$	mV	$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-10	$\pm 2$	10
			$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C}$	-5	$\pm 2$	5
			$I_P=0\text{A}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-10	$\pm 2$	10
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---

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

Note2 : Offset error refers to ratiometric output mode of unipolar output or fixed output mode of differential output.

**PIC1200-\*AR080FB-T/RB-T Performance Characteristic**

Unless otherwise specified, refers to general test conditions:  $T_A=25^{\circ}\text{C}$  ·  $V_{CC}=5\text{V}/3.3\text{V}$  ·  $C_{REF}=1\text{nF}$  ·  $C_L=1\text{nF}$  ·  $C_{VCC}=100\text{nF}$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A		-80	---	80
Sensitivity( $V_{CC}=3.3\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	16.5	---
Sensitivity( $V_{CC}=5\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	25	---
Zero Current Output Voltage	$V_{IOUT(Q)}$	V	Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=3.3\text{V}$ , Fixed output	1.64	1.65	1.66
			Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=5\text{V}$ , Fixed output	2.49	2.5	2.51
			Bipolar, $I_{PR}=0\text{A}$ , Ratiometric output	---	$V_{CC} \cdot 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.5	$\pm 0.5$	1.5
<b>Total Output Error Components: <math>E_{TOT} = (V_{IOUT} - V_{IOUTIdeal}) / (\text{Sens}_{Ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.1	$\pm 0.3$	1.1
			$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 25^{\circ}\text{C}$	-0.8	$\pm 0.3$	0.8
Offset Error <sup>Note2</sup>	$V_{OE}$	mV	$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-10	$\pm 2$	10
			$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C}$	-5	$\pm 2$	5
			$I_P=0\text{A}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-10	$\pm 2$	10
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---

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

Note2 : Offset error refers to ratiometric output mode of unipolar output or fixed output mode of differential output.

**PIC1200-\*AR100FB-T/RB-T Performance Characteristic**

Unless otherwise specified, refers to general test conditions:  $T_A=25^{\circ}\text{C}$  ·  $V_{CC}=5\text{V}/3.3\text{V}$  ·  $C_{REF}=1\text{nF}$  ·  $C_L=1\text{nF}$  ·  $C_{VCC}=100\text{nF}$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A		-100	---	100
Sensitivity( $V_{CC}=3.3\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	13.2	---
Sensitivity( $V_{CC}=5\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	20	---
Zero Current Output Voltage	$V_{IOUT(Q)}$	V	Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=3.3\text{V}$ , Fixed output	1.64	1.65	1.66
			Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=5\text{V}$ , Fixed output	2.49	2.5	2.51
			Bipolar, $I_{PR}=0\text{A}$ , Ratiometric output	---	$V_{CC} \cdot 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.6	$\pm 0.6$	1.6
<b>Total Output Error Components: <math>E_{TOT} = (V_{IOUT} - V_{IOUTIdeal}) / (\text{Sens}_{Ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.2	$\pm 0.3$	1.2
			$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 25^{\circ}\text{C}$	-0.8	$\pm 0.3$	0.8
Offset Error <sup>Note2</sup>	$V_{OE}$	mV	$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-8	$\pm 2$	8
			$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C}$	-5	$\pm 2$	5
			$I_P=0\text{A}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-8	$\pm 2$	8
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---

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

Note2 : Offset error refers to ratiometric output mode of unipolar output or fixed output mode of differential output.

**PIC1200-\*AR100FU-T/RU-T Performance Characteristic**

 Unless otherwise specified, refers to general test conditions:  $T_A=25^{\circ}\text{C}$  ·  $V_{CC}=5\text{V}/3.3\text{V}$  ·  $C_{REF}=1\text{nF}$  ·  $C_L=1\text{nF}$  ·  $C_{VCC}=100\text{nF}$ 

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A		-100	---	100
Sensitivity( $V_{CC}=3.3\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	26.4	---
Sensitivity( $V_{CC}=5\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	40	---
Zero Current Output Voltage	$V_{IOUT(Q)}$	V	Unipolar, $I_{PR}=0\text{A}$ , $V_{CC}=5\text{V}$ , Fixed output	0.49	0.5	0.51
			Unipolar, $I_{PR}=0\text{A}$ , Ratiometric output	---	$V_{CC} \cdot 0.1$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.6	$\pm 0.6$	1.6
<b>Total Output Error Components: <math>E_{TOT} = (V_{IOUT} - V_{IOUTideal}) / (\text{Sens}_{ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.3	$\pm 0.3$	1.3
			$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 25^{\circ}\text{C}$	-0.8	$\pm 0.3$	0.8
Offset Error <sup>Note2</sup>	$V_{OE}$	mV	$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-8	$\pm 2$	8
			$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C}$	-5	$\pm 2$	5
			$I_P=0\text{A}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-8	$\pm 2$	8
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---

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

Note2 : Offset error refers to ratiometric output mode of unipolar output or fixed output mode of differential output.

**PIC1200-\*AR150FB-T/RB-T Performance Characteristic**

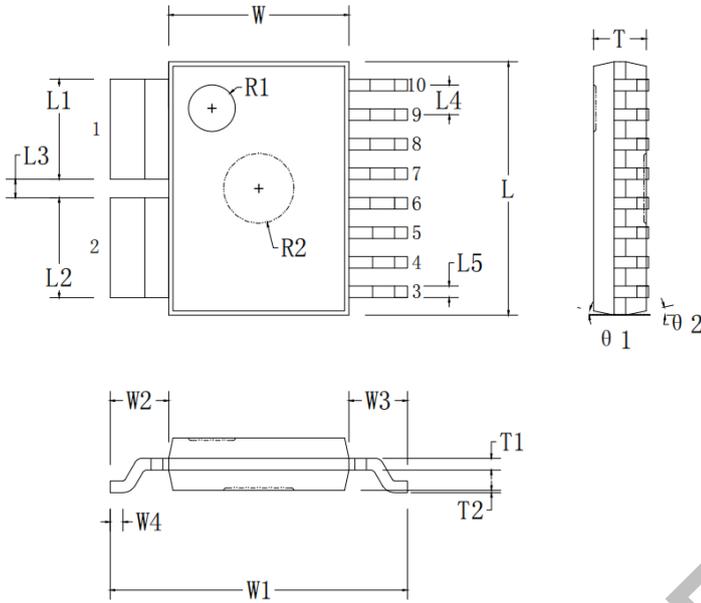
Unless otherwise specified, refers to general test conditions:  $T_A=25^{\circ}\text{C}$  ·  $V_{CC}=5\text{V}/3.3\text{V}$  ·  $C_{REF}=1\text{nF}$  ·  $C_L=1\text{nF}$  ·  $C_{VCC}=100\text{nF}$

Characteristic	Symbol	Unit	Test Conditions	Min.	Typ.	Max.
<b>Nominal Performance</b>						
Current Sensing Range	$I_{PR}$	A		-150	---	150
Sensitivity( $V_{CC}=3.3\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	8.8	---
Sensitivity( $V_{CC}=5\text{V}$ )	Sens	mV/A	$I_{PRmin} < I_{PR} < I_{PRmax}$	---	13.33	---
Zero Current Output Voltage	$V_{IOUT(Q)}$	V	Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=3.3\text{V}$ , Fixed output	1.64	1.65	1.66
			Bipolar, $I_{PR}=0\text{A}$ , $V_{CC}=5\text{V}$ , Fixed output	2.49	2.5	2.51
			Bipolar, $I_{PR}=0\text{A}$ , Ratiometric output	---	$V_{CC} \cdot 0.5$	---
<b>Accuracy Performance</b>						
Total Output Error	$E_{TOT}$	%	$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.6	$\pm 0.6$	1.6
<b>Total Output Error Components: <math>E_{TOT} = (V_{IOUT} - V_{IOUTIdeal}) / (\text{Sens}_{Ideal} \times I_P) \times 100\%</math></b>						
Sensitivity Error	$E_{SENS}$	%	$I_P=I_{PRmax}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-1.2	$\pm 0.3$	1.2
			$I_P=I_{PRmax}$ · $T_A=-40^{\circ}\text{C} \sim 25^{\circ}\text{C}$	-0.8	$\pm 0.3$	0.8
Offset Error <sup>Note2</sup>	$V_{OE}$	mV	$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-8	$\pm 2$	8
			$I_P=0\text{A}$ · $T_A=25^{\circ}\text{C}$	-5	$\pm 2$	5
			$I_P=0\text{A}$ · $T_A=-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	-8	$\pm 2$	8
<b>Lifetime Drift Characteristics</b>						
Sensitivity Error Lifetime Drift	$E_{SENS\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---
Total Output Error Lifetime Drift	$E_{TOT\_drift}$	%	After reliability test · $T_A=25^{\circ}\text{C}$	---	0.5	---

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

Note2 : Offset error refers to ratiometric output mode of unipolar output or fixed output mode of differential output.

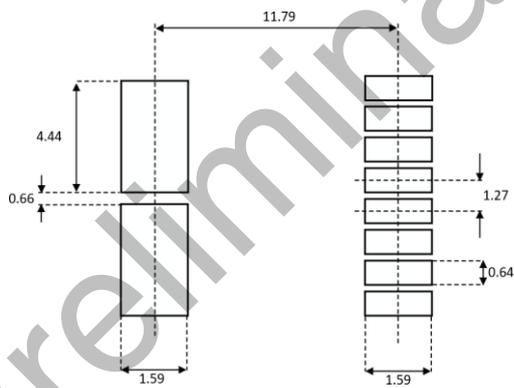
**PACKAGE INFORMATION**



SOIC-10 Package

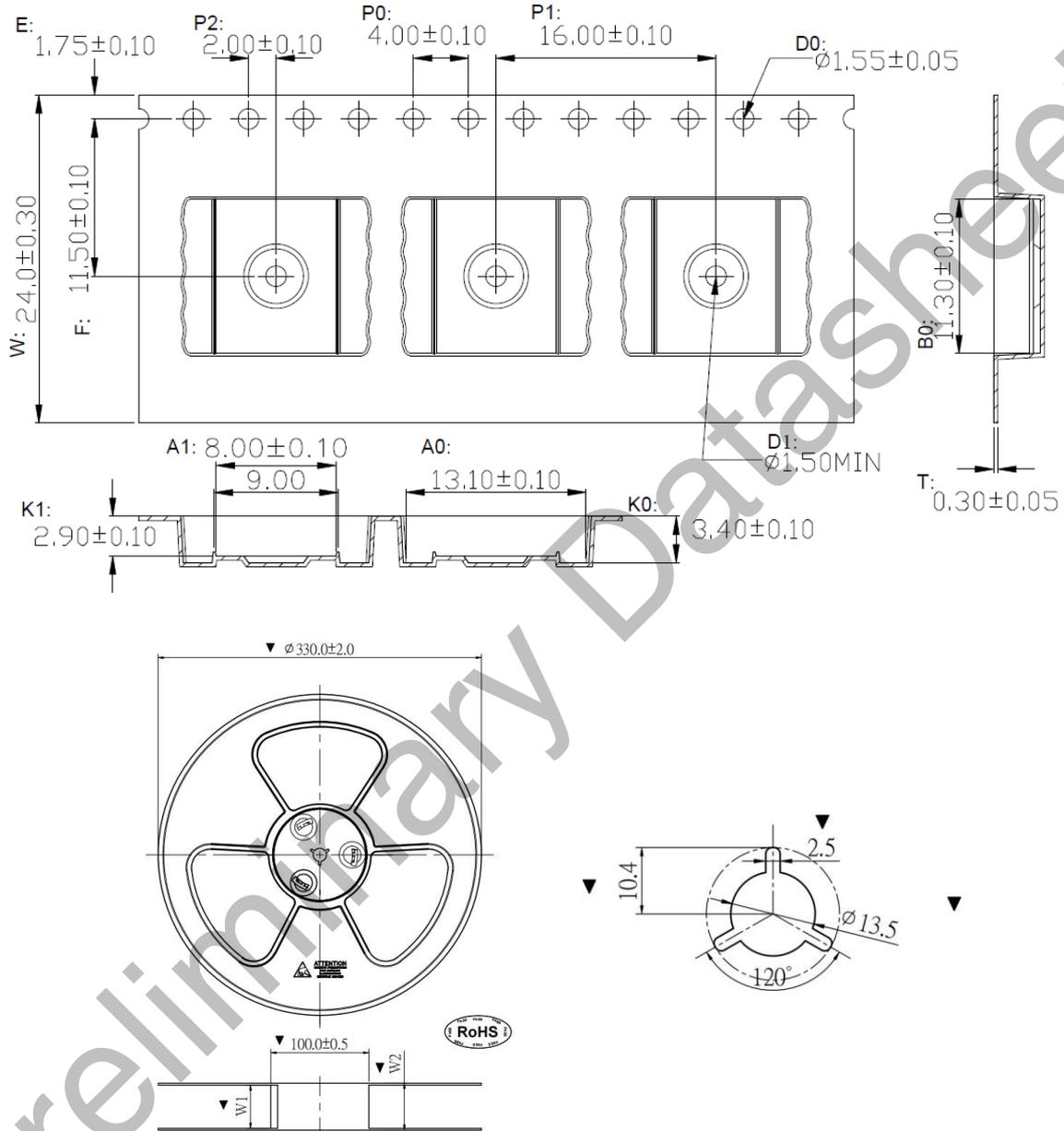
NUM	SIZE (mm)			NOTE
	MIN	NOM	MAX	
*W	7.50	7.70	7.90	
*W1	12.50	12.70	12.90	
*W2/W3	2.50	2.60	2.70	
W4	0.40	/	/	
*T	2.15	2.25	2.35	
T1	0.45	0.50	0.55	
T2	0.00	0.10	0.20	
*L	10.70	10.90	11.10	
L1/L2	4.20	4.30	4.40	
L3	0.70	0.80	0.90	
*L4	1.17	1.27	1.37	
*L5	0.45	0.50	0.55	
R1	0.90	1.00	1.10	
R2	1.40	1.50	1.60	
θ 1/ θ 2	9°	12°	15°	

Recommend pad size :



Unit : mm  
General linear tolerance: ±0.2mm

**PACKING INFORMATION**



Unit : mm  
General linear tolerance:  $\pm 0.2 \text{ mm}$