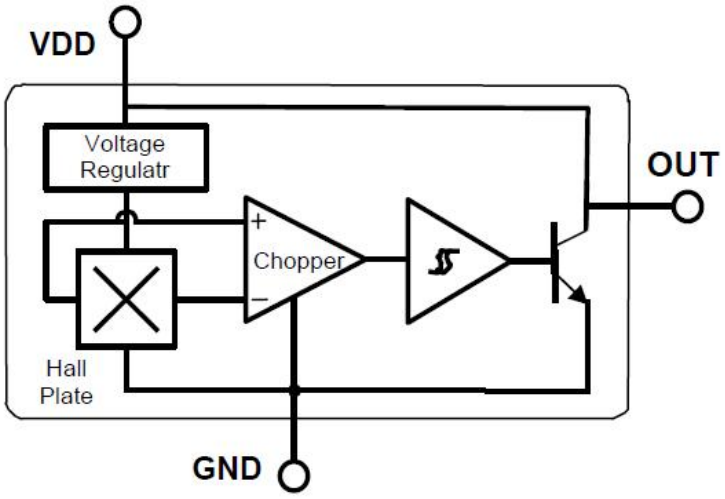
Features

- Solid-State Reliability much better
  Than reed switch
- Omnipolar, output switches with absolute
  Value of North or South pole from magnet
- Operation from 3.5V to 24V
- High sensitivity for direct reed switch
  Replacement applications

Applications

- Solid state switch
- Speed detection
- Interrupter
- Magnet proximity sensor for reed switch replacement

Functional Block Diagram



Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Supply Voltage	VDD	28	V
Supply Current	IDD	5	mA
Output Voltage	VOUT	28	V
Output Current	IOUT	10	mA
Storage Temperature Range	TS	-50 to 150	℃

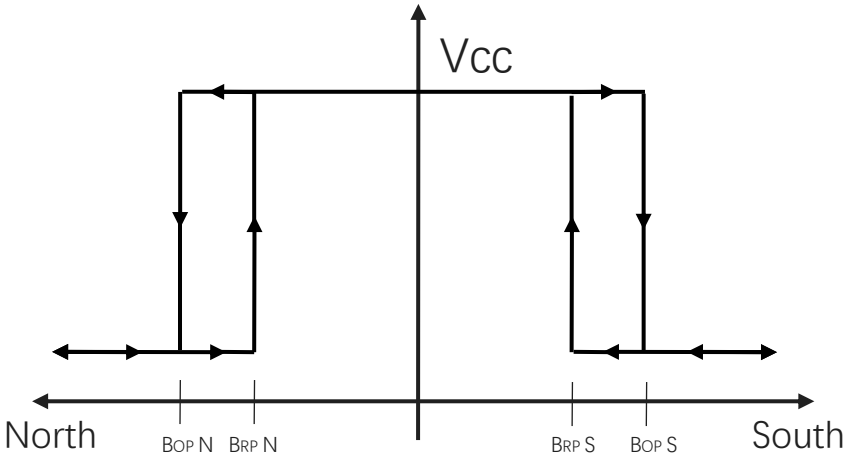
General Electrical Specifications

DC Operating Parameters TA= 25℃, VDD= 3.5V to 24V (unless otherwise specified)

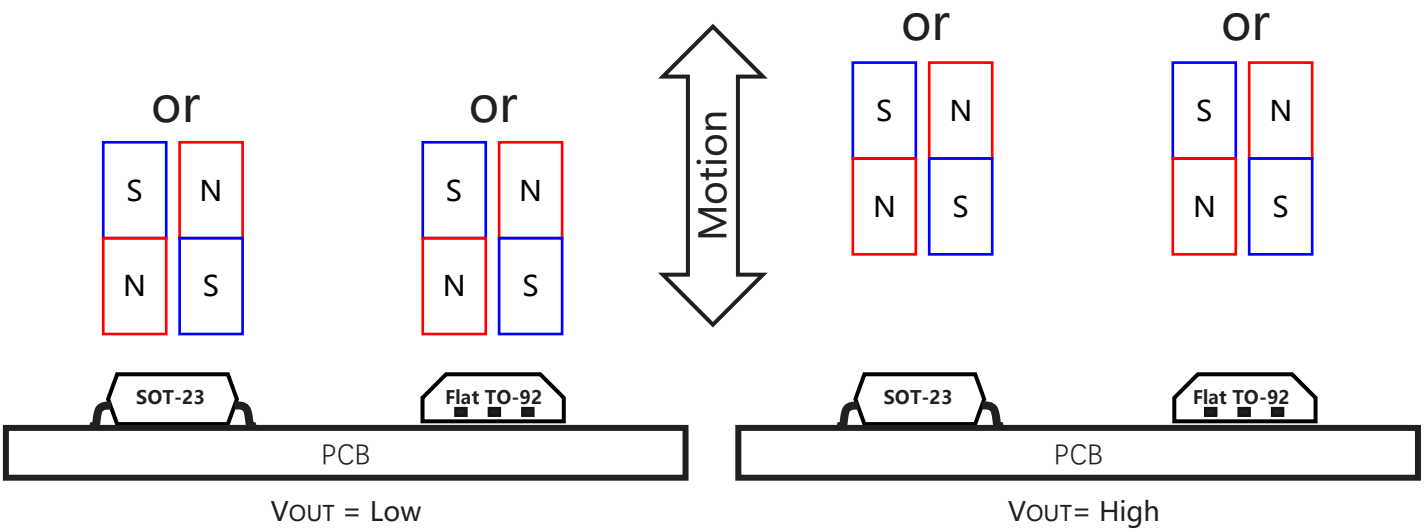
Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Supply Voltage	VDD	Operating	3.5		24	V
Supply Current	IDD	B < BRP		2	5	mA
Output Saturation Voltage	VDS(on)	IOUT = 20mA, B > BOP			0.5	V
Output Leakage Current	IOFF	B < BRP VOUT = 24V		1	10	μA
Output Rise Time	TR	RL = 1KΩ, CL = 20pF		0.25		μs
Output Fall Time	TF	RL =1KΩ, CL = 20pF		0.25		μs

Magnetic Characteristics

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Operating Point	BOP	Ta=25℃,Vdd=5V DC		+/-40	+/-60	G
Release Point	BRP		+/-5	+/-25		G
Hysteresis	BHYS			15		G



Omni-polar Switching Function

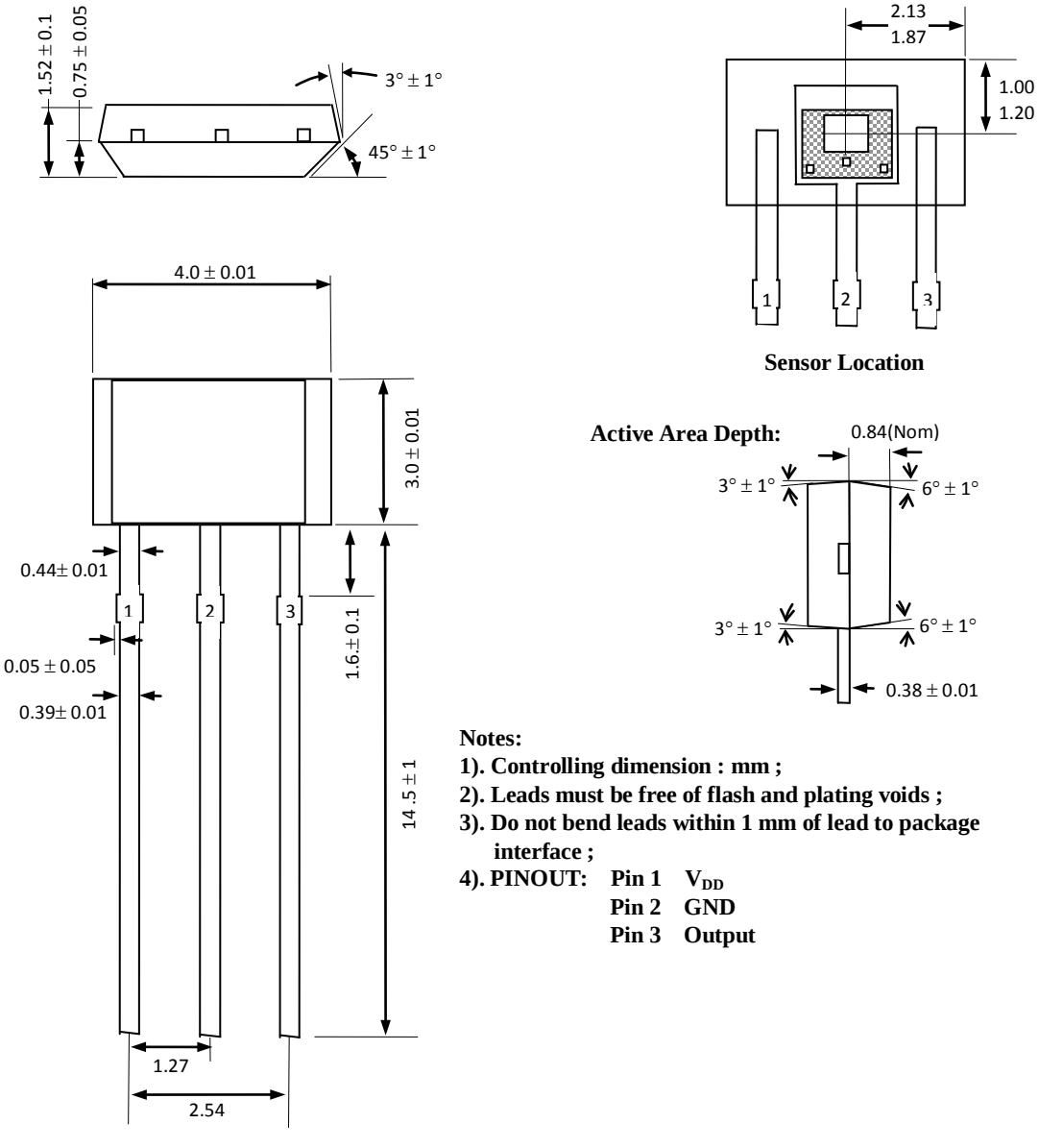


VOUT = Low

VOUT= High

Package Information

Package UA, 3-Pin SIP:



Sensor Location

Active Area Depth:

Notes:

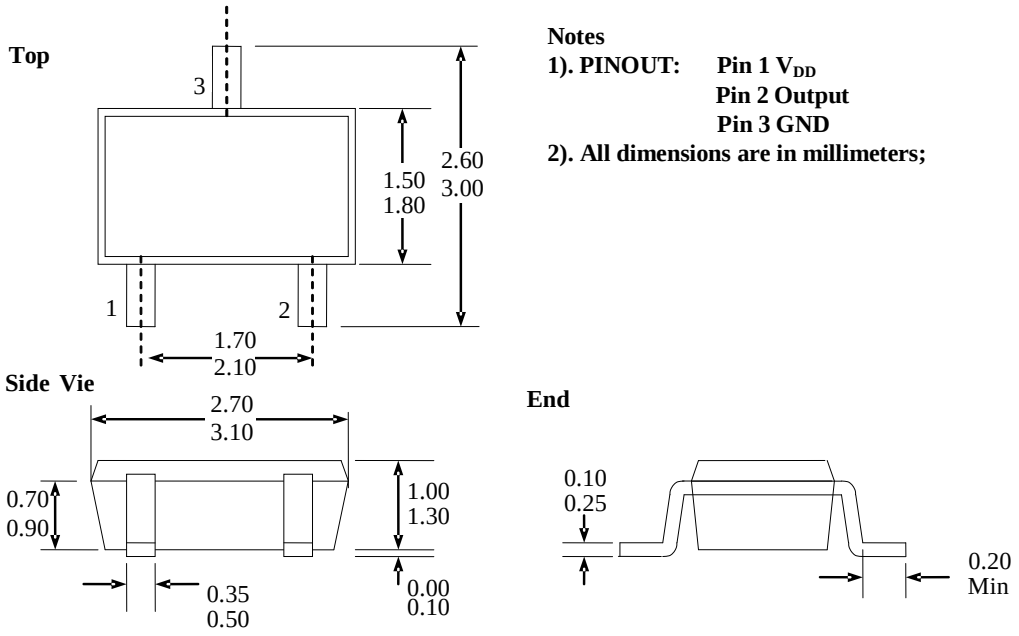
1). Controlling dimension : mm ;

2). Leads must be free of flash and plating voids ;

3). Do not bend leads within 1 mm of lead to package interface ;

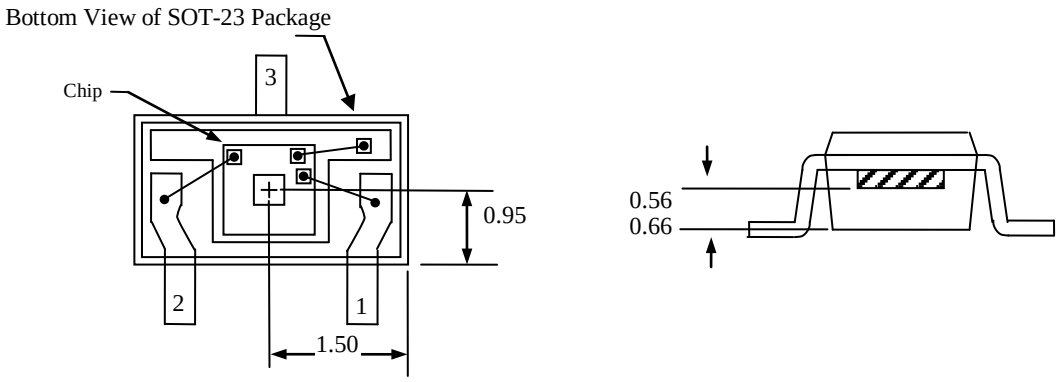
4). PINOUT: **Pin 1** V_{DD}
Pin 2 **GND**
Pin 3 **Output**

Package SO, 3-Pin SOT-23:



Notes
1). PINOUT: Pin 1 V_{DD}
Pin 2 Output
Pin 3 GND
2). All dimensions are in millimeters;

Hall plate location



Ordering Information

Part No.	Package Code
ME1245	UA (TO-92)
	SO (SOT-23)