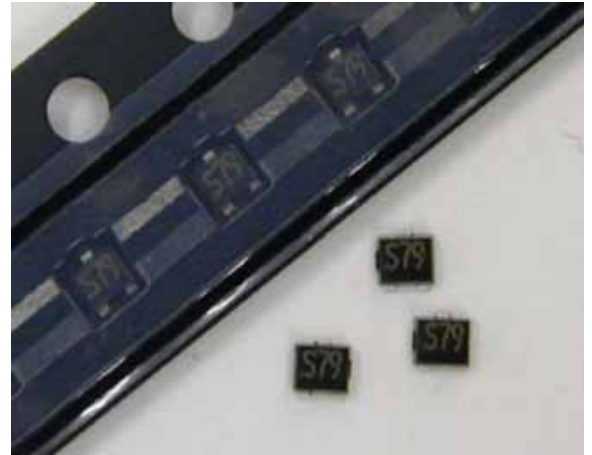


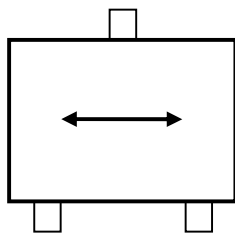
## FEATURES

- Low Voltage Operation
- Micro power ( $6\mu$  W(typ): $V_{cc}=1.8V$ )  
-Suited for battery-operation
- Very Compact Flat Lead Package size  
(PKG Height: Max 0.55mm)
- Operating ambient temperature range:  $-40^{\circ}C$  to  $+85^{\circ}C$   
Operating with independent pole (easily manufacture)  
Superior Temperature Stability  
RoHS Compliant  
Halogen Free goods

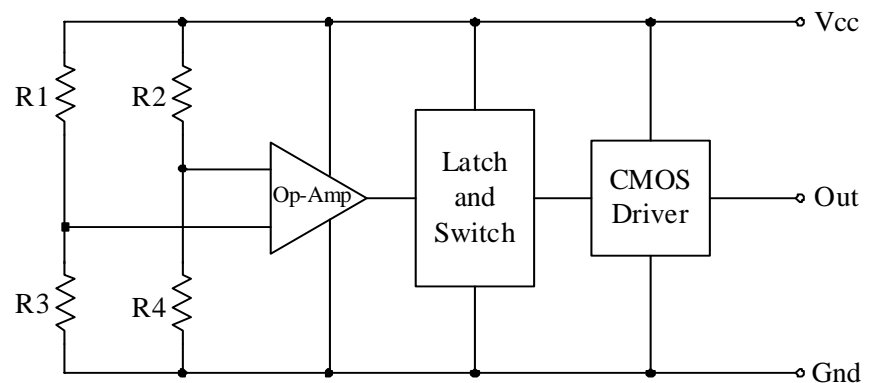


## FUNDEMENTAL OPERATION

Direction of Magnetic Field



Circuit Block



The intermittent switch circuit inside  
R1-R4:MR Elements

## PERFORMANCE

### Performance Characteristics (Ta=25±3°C)

	Operating require Condition	Output Voltage
When power switch is ON	H = 0 mT(Magnetic Flux Density) {0 A/m (Magnetic Field Strength)}	Hi-level
When magnetic field is applied	H 2.5mT (Magnetic Flux Density) {2.0kA/m (Magnetic Field Strength)}	Lo-level
When magnetic field is applied	H 0.5 mT(Magnetic Flux Density) {0.4kA/m (Magnetic Field Strength)}	Hi-level

### Operating Conditions Recommended

(Ta = 25±3°C unless otherwise specified)

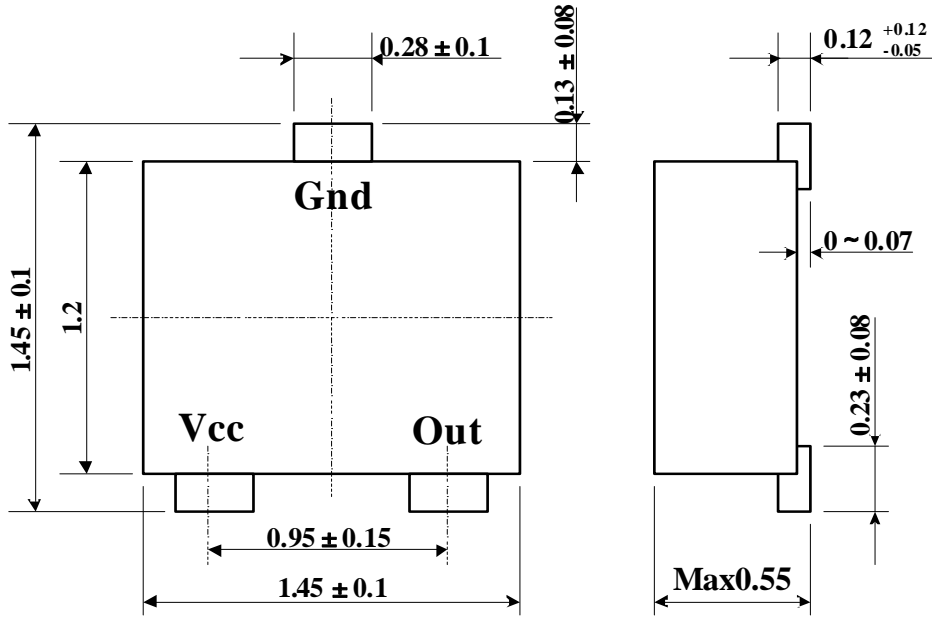
Item	Symbol	Condition	Min	Std	Max	Unit
Source Voltage	-	-	1.6	1.8	3.5	V
Supply Current	(AVG)	Vcc=1.8V	-	3.0	-	μA
Ambient Temperature	-	-	-40	25	85	°C
Output Voltage	VOH	Vcc=1.8V Iout=1mA	1.6	-	-	V
	VOL	VCC=1.8V Iout=-1mA	-	-	0.2	V
Operating Magnetic Field	Hon	25±3°C	-	1.5 (1.2)	2.5 (2.0)	mT <sup>(*1)</sup>
	Hoff	25±3°C	0.5 (0.4)	-	-	(kA/m) <sup>(*2)</sup>

\*1) 1 [mT](SI) = 10 [G] (CGS)

\*2) ( ) = [kA/m](SI)



## DIMENSIONS (Unit: mm)



## ABSOLUTE MAXIMUM RATINGS

( $T_a=25 \pm 3^\circ\text{C}$  unless otherwise specified)

Item	Condition	Specifications	Unit
Supply Voltage	-	5.0	V
Storage Temperature	-	-40 ~ +125	$^\circ\text{C}$

## ESD PROTECTION

Human Body Model (HBM) tests according to: MIL-STD-883D Method: 3015.7

Parameter	Symbol	Limited Values		Unit	Notes
		Min	Max		
ESD Voltage	$V_{\text{ESD}}$	$\pm 4.0$		kV	<b>R=1.5k</b> <b>C=100pF</b> <b>T=25</b>



**RECOMMENDED MOUNT PAD** (Unit: mm)

