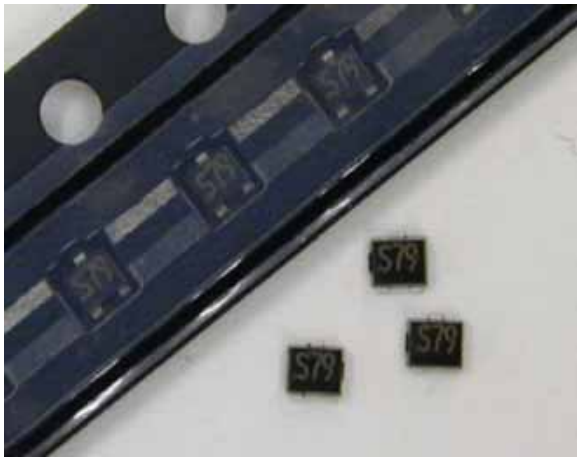
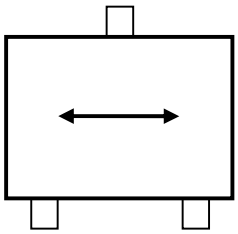
FEATURES

- Low Voltage Operation
- Micro power (6μ W(typ):Vcc=1.8V)
  -Suited for buttery-operation
- Very Compact Flat Lead Package size
  (PKG Height: Max 0.55mm)
- Operating ambient temperature range: -40ºC to +85ºC
- Operating with independent pole (easily manufacture)
- Superior Temperature Stability
- RoHS Compliant
- Halogen Free goods

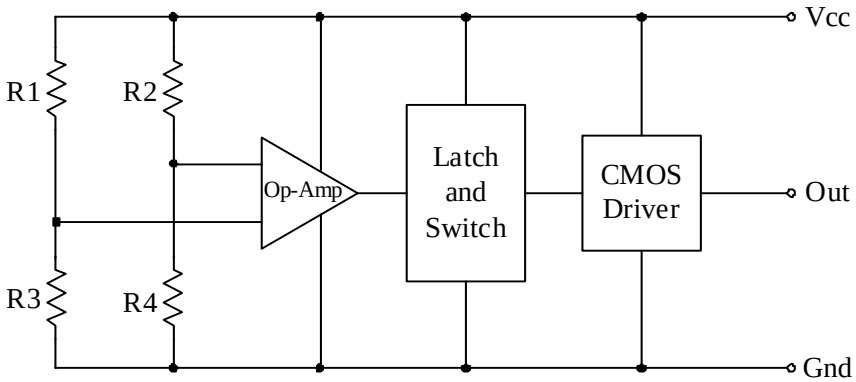


FUNDEMENTAL OPERATION

Direction of Magnetic Field



Circuit Block



The intermittent switch circuit inside
R1-R4:MR Elements

PERFORMANCE

Performance Characteristics **(Ta=25±3ºC)**

	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**

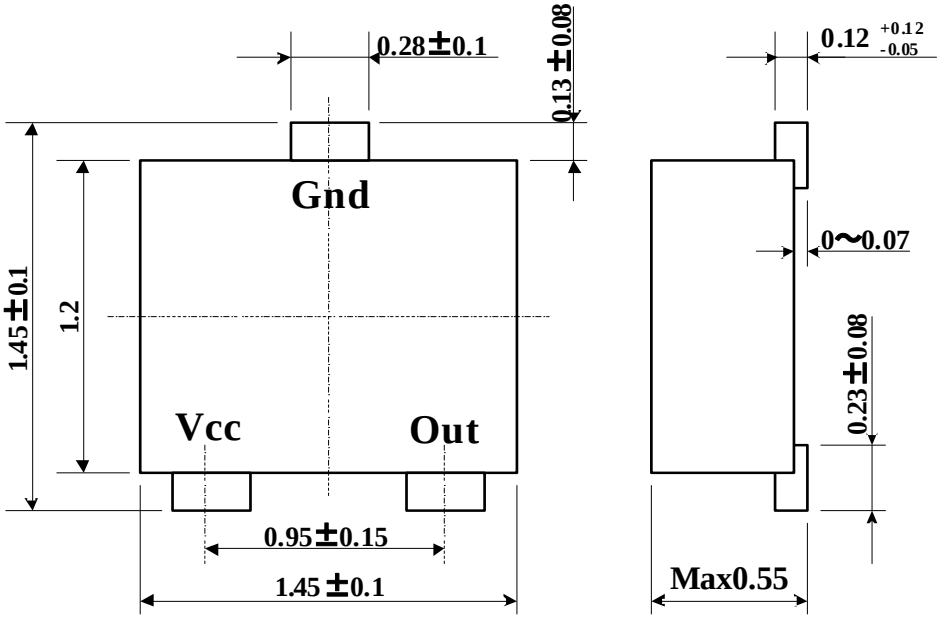
Operating Conditions Recommended

(Ta = 25±3ºC 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**	**ºC**
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±3ºC**	**-**	**1.5 (1.2)**	**2.5 (2.0)**	**mT(*1 (kA/m)(*2**
	Hoff	**25±3ºC**	**0.5 (0.4)**	**-**	**-**	

*1) **1 [mT](SI) = 10 [G] (CGS)**
*2) **( ) = [kA/m](SI)**

DIMENSIONS (Unit: mm)



ABSOLUTE MAXIMUM RATINGS

(Ta=25±3ºC unless otherwise specified)

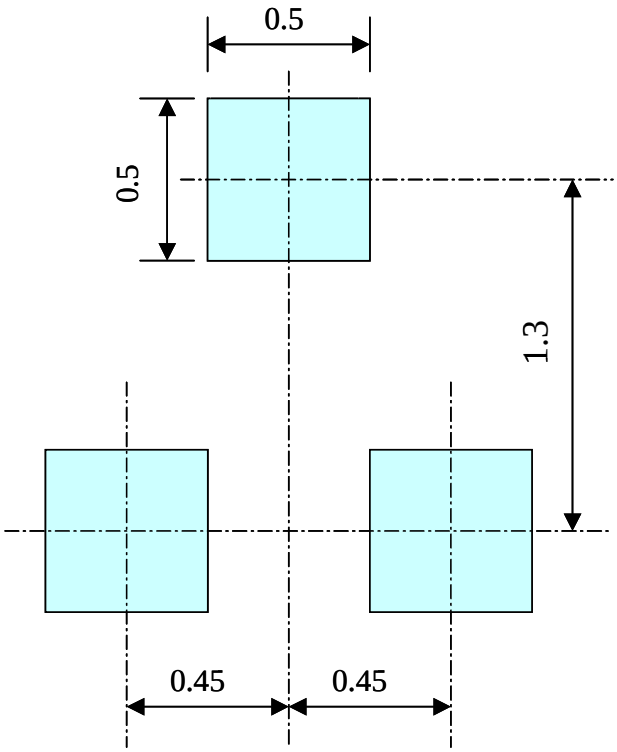
Item	Condition	Specifications	Unit
Supply Voltage	-	**5.0**	**V**
Storage Temperature	-	**-40 ~ +125**	**ºC**

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_{ESD}**	**±4.0**		**kV**	**R=1.5kΩ** **C=100pF** **T=25℃**

RECOMMENDED MOUNT PAD (Unit: mm)



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