

# MRSM76A/B

## Position detection MR sensor

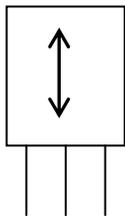
### FEATURES

- Position Detection sensor
  - Various usages for position detection
  - Operating with independent pole
  - Superior Temperature stability
  - Wide operating source voltage
  - No contact detection sensor
  - dependable for various use

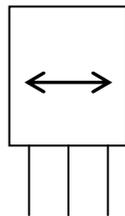


### FUNDEMENTAL OPERATION

#### Direction of Magnetic Field

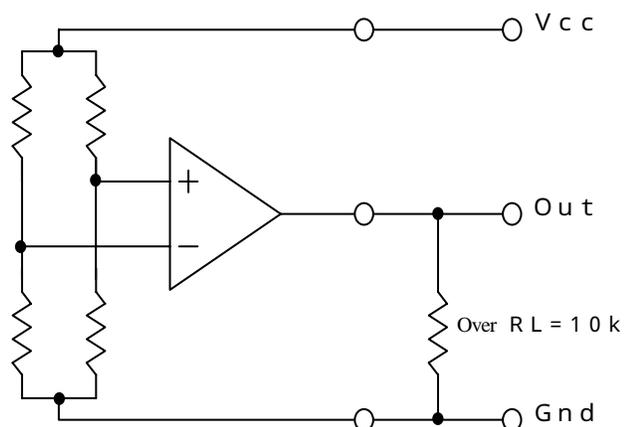


**A** direction  
(When switch is **ON**)



**B** direction  
(When switch is **OFF**)

#### Circuit Block



# PERFORMANCE

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

	Operating require Condition	Output Voltage
When power switch is ON	H = 0.0mT(Magnetic Flux Density) {0 A/m (Magnetic Field Strength)}	Unfixed
When magnetic field is applied To A direction	H 4.0(Typ)mT(Magnetic Flux Density) {2.4kA/m (Magnetic Field Strength)}	Hi-level
When magnetic field is applied To A direction When magnetic field is applied To B direction	H = 0.0 mT(Magnetic Flux Density) {0kA/m (Magnetic Field Strength)} H 0.0 mT(Magnetic Flux Density) {0kA/m (Magnetic Field Strength)}	Lo-level

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

Item	Symbol	Condition	Min	Std	Max	Unit
Source Voltage	Vcc	-	3	12	30	V
Load Resistance	RL	Vcc=12V	10.0	-	-	k
Ambient Temperature	Ta	-	-20	25	80	°C

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

Electrical Characteristics (Ta = 25 ± 3    unless otherwise specified)

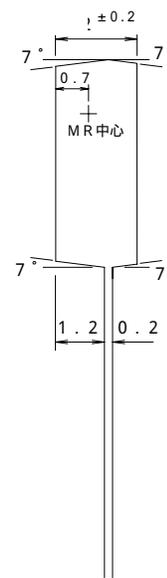
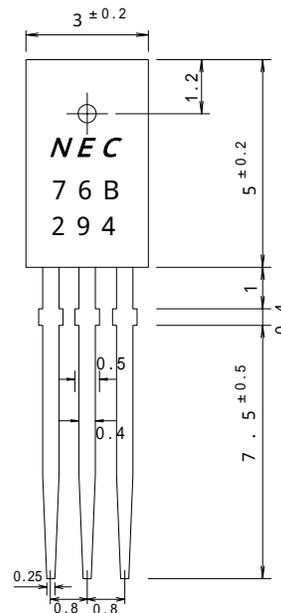
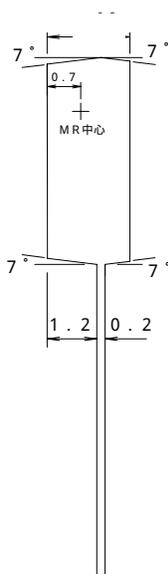
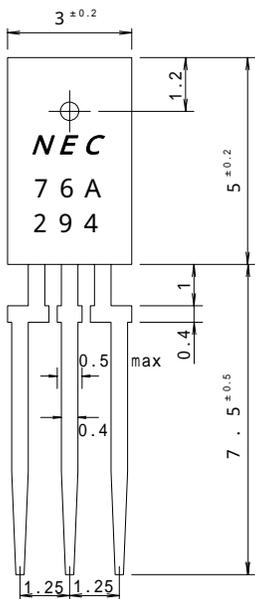
Item	Symbol	Condition	Min	Std	Max	Unit
Circuit Current	Hon	Vcc=12V Output open	-	-	5	mA
Output Voltage 1	VoH	RL=10 k Vcc=12V	10	-	-	V
Output Voltage 2	VoL	RL=10 k Vcc=12V	-	-	1	V
Response Frequency	f(max)	Vcc=12V	-	-	2	kHz

# ABSOLUTE MAXIMUM RATINGS

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

Item	Condition	Specifications	Unit
Source Voltage	-	36	V
Operating Temperature	-	-20 ~ +80	°C
Storage Temperature	-	-40 ~ +125	°C

## DIMENSIONS (Unit:mm)



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