

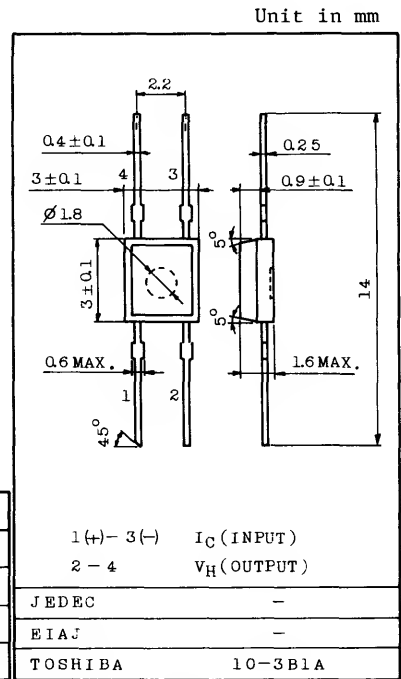
HIGH STABILITY MOTOR CONTROL.  
ENERGY SAVING FOR COOLING FAN MOTOR.  
DIGITAL TACHOMETER.  
CRANK SHAFT POSITION SENSOR.

## FEATURES:

- Excellent Temperature Characteristics.  
(;  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ )
- Excellent Output Voltage Linearity.  
(; up to 15k Gausses)

MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Control Current (DC)	$I_C$	10	mA
Control Current (Peak)	$I_C$	15	mA
Operating Temperature Range	$T_{op}$	$-55 \sim +125$	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	$-55 \sim +150$	$^{\circ}\text{C}$



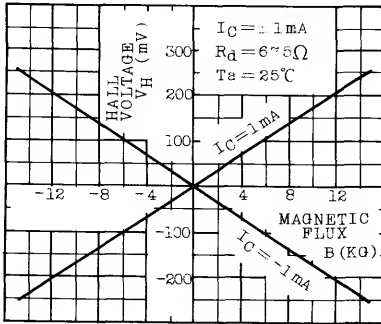
Weight : 0.045g

ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ )

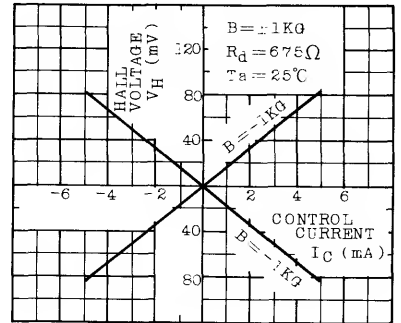
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Internal Resistance	$R_d$	$I_C=1\text{mA}$	450	-	900	$\Omega$
Residual Voltage Ratio	$V_{HO}/V_H$	$I_C=1\text{mA}$ , $B=0/B=1\text{KG}$	-	-	$\pm 10$	%
Hall Voltage (Note 1)	$V_H$	$I_C=1\text{mA}$ , $B=1\text{KG}$	10	-	30	mV
Temperature Coefficient (Note 2)	$V_{HT}$	$I_C=1\text{mA}$ , $B=5\text{KG}$ $T_1=25^{\circ}\text{C}$ , $T_2=125^{\circ}\text{C}$	-	-	-0.06	$\%/^{\circ}\text{C}$
Linearity (Note 3)	$\Delta K_H$	$I_C=1\text{mA}$ , $B_1=1\text{KG}$ , $B_2=5\text{KG}$	-	-	2	%

Note 1 :  $V_H = V_{HM} - V_{HO}$  ( $V_{HM}$  is meter indication)Note 2 :  $V_{HT} = \frac{1}{V_H(T_1)} \frac{V_H(T_2) - V_H(T_1)}{T_2 - T_1} \times 100$  ( $\%/^{\circ}\text{C}$ ) $V_{HO}$  : Residual VoltageNote 3 :  $\Delta K_H = \frac{K_H(B_2) - K_H(B_1)}{1/2\{K_H(B_1) + K_H(B_2)\}} \times 100$  (%),  $K_H = \frac{V_H}{I_C \cdot B}$  $K_H$  : Product Sensitivity

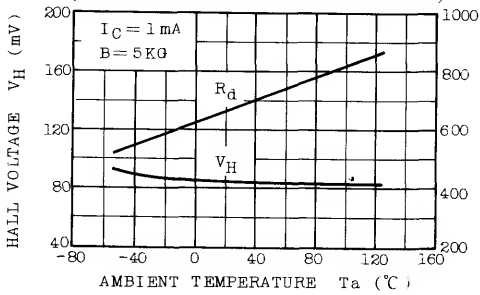
$V_H - B$  CHARACTERISTICS



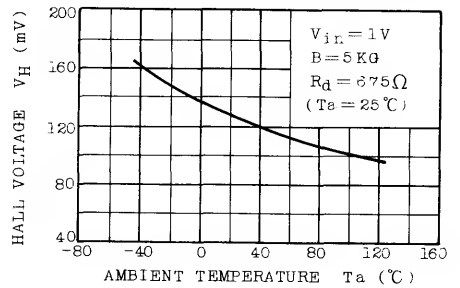
$V_H - I_C$  CHARACTERISTICS



$V_H - T_a, R_d - T_a$  CHARACTERISTICS  
(CONSTANT CURRENT OPERATION)



$V_H - T_a$  CHARACTERISTICS  
(CONSTANT VOLTAGE OPERATION)



$I_C - T_a$

