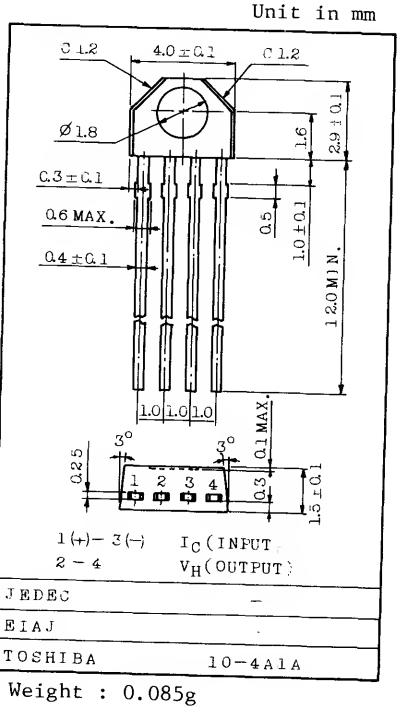
HIGH STABILITY MOTOR CONTROL.
ENERGY SAVING FOR COOLING FAN MOTOR.
DIGITAL TACHOMETER.
CRANK SHAT POSITION SENSOR.

FEATURES:

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

Unit in mm



Weight : 0.085g

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

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

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Internal Resistance	R_d	I_C=5mA	450	-	900	Ω
Residual Voltage Ratio	V_{HO}/V_H	I_C=5mA, B=0/B=1KG	-	-	±10	%
Hall Voltage (Note 1)	V_H	I_C=5mA, B=1KG	50	80	120	mV
Temperature Coefficient (Note 2)	V_{HT}	I_C=5mA, B=5KG $T_1=25^{\circ}C$, $T_2=125^{\circ}C$	-	-	-0.06	$\%/^{\circ}C$
Linearity (Note 3)	ΔK_H	I_C=5mA, B_1=1KG, B_2=5KG	-	-	2	%

Note 1 : $V_H=V_{HM}-V_{HO}$ (V_{HM} is meter indication)

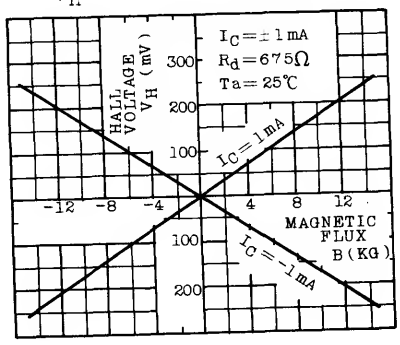
Note 2 : $V_{HT}=\frac{1}{V_H(T1)}\frac{V_H(T2)-V_H(T1)}{T2-T1}\times 100\ (\%/^{\circ}C)$

Note 3 : $\Delta K_H=\frac{K_H(B2)-K_H(B1)}{1/2\{K_H(B1)+K_H(B2)\}}\times 100\ (\%)$, $K_H=\frac{V_H}{I_C\cdot B}$

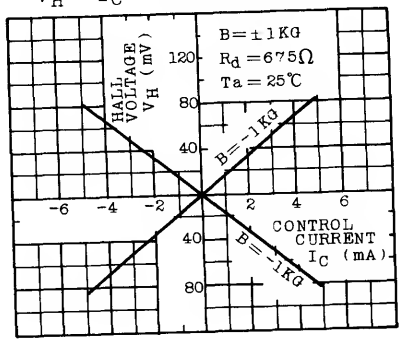
V_{HO} : Residual Voltage

K_H : Product Sensitivity

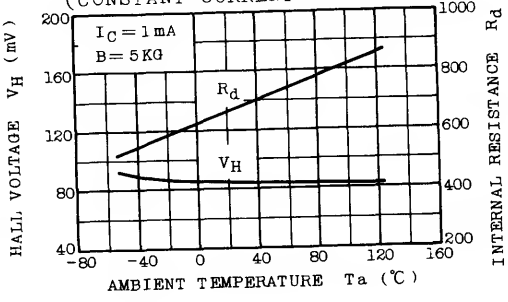
V_H – B CHARACTERISTICS



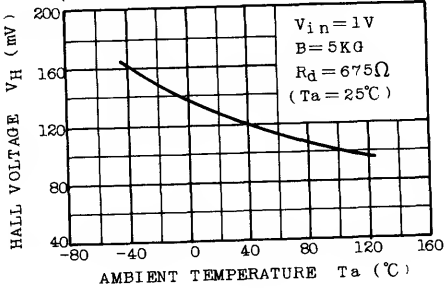
V_H – I_C CHARACTERISTICS



V_H – Ta, R_d – Ta CHARACTERISTICS)
(CONSTANT CURRENT OPERATION)



V_H – Ta CHARACTERISTICS
(CONSTANT VOLTAGE OPERATION)



I_C – Ta