

MICRO SWITCH
a Honeywell Division

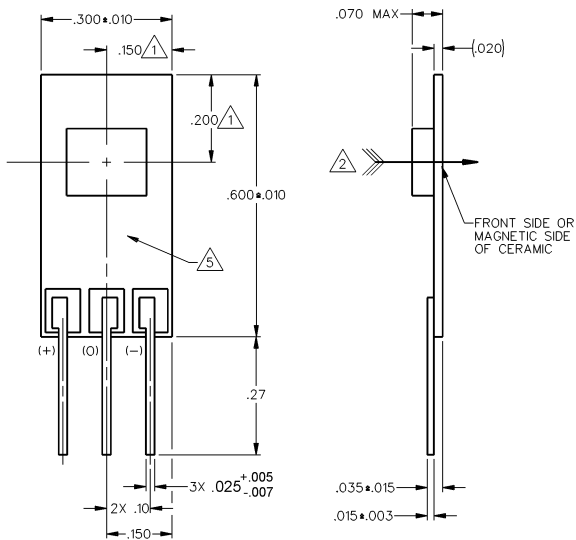
**LINEAR OUTPUT HALL
EFFECT TRANSDUCER**

CATALOG LISTING
SS94B1A

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SPECIFICATIONS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY Δ	TA = 25°C	5.508	5.62	5.732	mV/GAUSS
Vout AT 380 GAUSS	TA = 25°C	.960	1.000	1.040	VOLTS
SUPPLY CURRENT	TA = 25°C		8	11	mA
OUTPUT CURRENT (SINK OR SOURCE)		1.0	2.0		mA
OUTPUT VOLTAGE SWING					
VOM - 1mA	-B APPLIED	Δ .5	.4		VOLTS
VOM + 1mA	+B APPLIED	Vs -.5	Vs -.4		VOLTS
B LIMITS FOR LINEAR OPERATION					GAUSS
	-B MAX	330	275		
	+B MAX	950	1030		
Vnu11 DRIFT	B = 0	-1.1		+1.1	mV/°C
SENSITIVITY DRIFT		-.03		+0.03	%/°C
LINEARITY	-BMAX TO +BMAX	-1.0	-.5	0	% OF SPAN
SUPPLY VOLTAGE		4.5		10.5	VOLTS
OPERATING TEMP		-55		150	°C



- NOTES
- 1 CENTERLINE OF HALL CELL (IC) ONLY. THE LOCATION OF THE CERAMIC COVER IS NOT SPECIFIED
 - 2 THE + MAGNETIC FLUX IS IN THIS DIRECTION (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)
 - 3 - THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
 - 4 - OUTPUT TYPE - RATIOMETRIC
 - 5 ARTWORK IS TYPICAL
 - 6 ALL CHARACTERISTICS ARE -40°C TO 125°C UNLESS OTHERWISE STATED WITH Vs = 5.000 VDC
 - 7 MEASURED FROM 380 TO 700 GAUSS
 - 8 SATURATION VOLTAGE WILL BE ≤ .2 VOLTS WHEN LOAD IS ≤ 50 μA

THIRD ANGLE PROJECTION

SCALE 5 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0) ± .030
TWO PLACE	(.00) ± .015
THREE PLACE	(.000) ± .005
ANGLES	±
WEIGHT	



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ANSI Y14.5M-1982 APPLIES