

LINEAR OUTPUT HALL
EFFECT TRANSDUCER

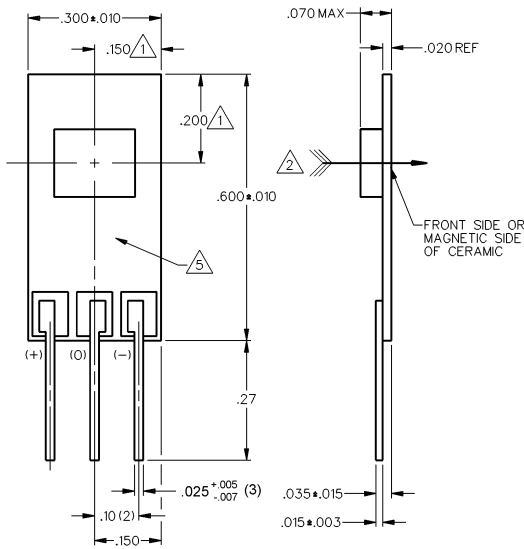
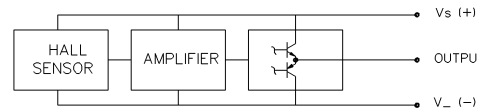
CATALOG LISTING
SS94A1B

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OPERATING CHARACTERISTICS AT 5 VDC

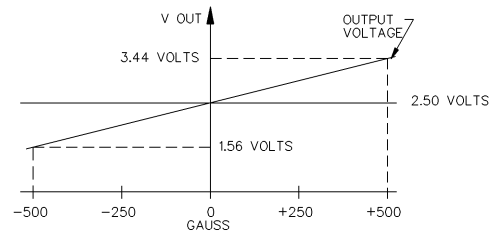
PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS/REMARKS
SUPPLY VOLTAGE	4.50	5.00	8.00	VOLTS	-20°C TO +125°C
SUPPLY CURRENT		16	17.5	mA	MAX AT 8.0V. AT -20°C
OUTPUT CURRENT			1	mA	SINKING OR SOURCING
OUTPUT SPAN		.375V _s		VOLTS	-500G TO +500G AT 25°C
SENSITIVITY	1.775	1.875	1.975	mV/g	AT 5.00 V _s & 25°C
LINEARITY	-1.5	-.8	0	% OF SPAN	DEV FROM STR LINE THRU -500 AND +500
V _{out} AT 0 GAUSS	2.450	2.500	2.550	VOLTS	25°C
TEMP ERROR-NULL	-.025		+.025	%/°C	-20°C TO +125°C
TEMP ERROR-GAIN	-.025		+.025	%/°C	-20°C TO +125°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



- NOTES**
- 1 CENTERLINE OF HALL CELL (IC) ONLY.
 - 2 THE LOCATION OF THE CERAMIC COVER IS NOT SPECIFIED
 - 3 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)
 - 4 THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
 - 5 OUTPUT TYPE - RATIOMETRIC
 - ARTWORK TYPICAL

NOMINAL TRANSFER CHARACTERISTICS AT 5.0 VDC



THIRD ANGLE PROJECTION

SCALE 5 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.01) ±.030

TWO PLACE (.00) ±.015

THREE PLACE (.000) ±.005

ANGLES ±

WEIGHT



ANSI Y14.5M-1982 APPLIES

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 ISSUE 6
 REVISIONS
 A 0068712 25 OCT 88
 B 0072443 19 MAY 88
 C 005704 21 MAR 88
 D 0038924 14 APR 88
 E 0029911 19 OCT 88
 RASTER DRAWN
 T M I 26 SEP 88
 X89105-SS
 PR-16792
 19MAY08
 BLR
 19OCT88