

MICRO SWITCH
a Honeywell Division

FED. MFG. CODE 91929

LINEAR OUTPUT HALL
EFFECT TRANSDUCER

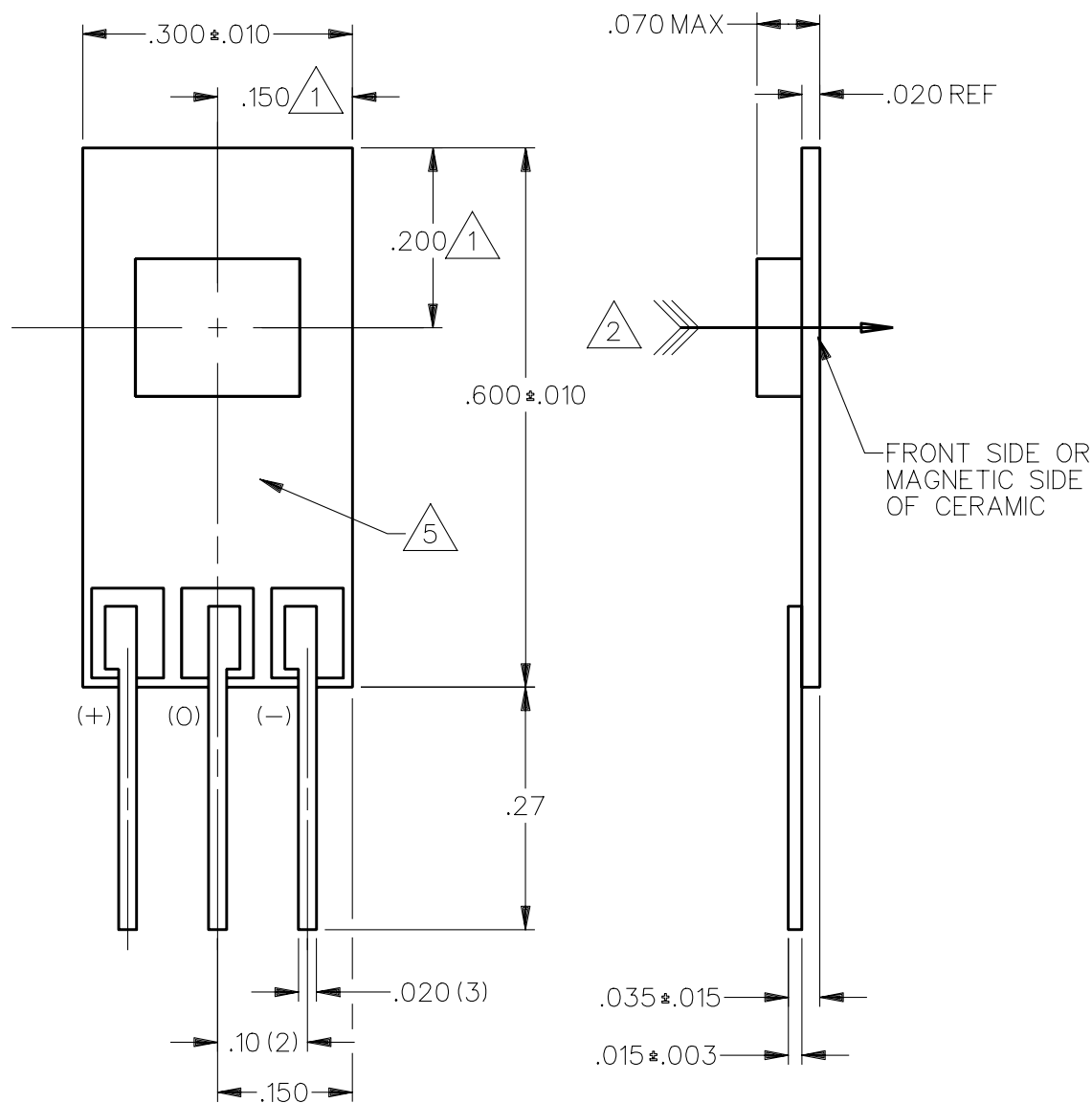
CATALOG LISTING
SS94A1F

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SPECIFICATIONS

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PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	24.5	25.0	25.5	mV/GAUSS
NULL	TA = 25°	3.92	4.00	4.08	VOLTS
SUPPLY CURRENT	TA = 25°		13	20	mA
OUTPUT CURRENT (SINK OR SOURCE)		1.0	2.0		mA
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	1.2	1.1		VOLTS
VOM +	7 +B APPLIED	Vs -1.0	Vs -.9		VOLTS
B LIMITS FOR LINEAR OPERATION	-B MAX	-100	-115		GAUSS
	+B MAX	+100	+115		GAUSS
Vnull DRIFT	B = 0			±.10	%/°C
SENSITIVITY DRIFT				+0.02/-0.055	%/°C
LINEARITY	-B MAX T +B MAX	-1.5	-.8	0	% OF SPAN
SUPPLY VOLTAGE		6.6		12.6	VOLTS



NOTES

- 1 CENTERLINE OF HALL CELL
- 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 = 8.000 VDC
- 7 THE OUTPUT IS CLAMPED AT 9.0 VDC MINIMUM, 9.5 VDC TYPICAL

CATALOG LISTING
SS94A1F
REPLACES X89676-SS
RELEASE NO. PR-17444

ISSUE
M
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REVISIONS	CHECK
A C066416 K A G 25 SEP 89	
B C066822 J A S 2 FEB 90	
C C072441 J A S 19 MAY 92	
D C073280 J A F 11 AUG 92	
E C075573 J A F 12 JUL 93	
F C076360 J A F 10 AUG 93	

DDM/CAD
DRAWN

J A S 19 AUG 89
CHECK K A G 8 AUG 89

ANSI Y14.5M-1982 APPLIES

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