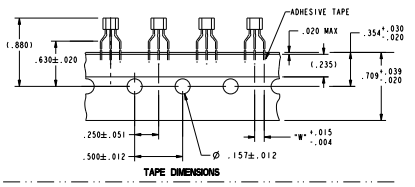
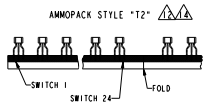
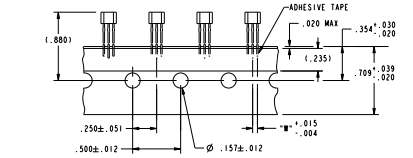
TAPE PACKING OPTIONS



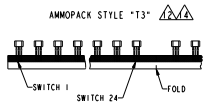
TAPE DIMENSIONS

TAPE STYLE





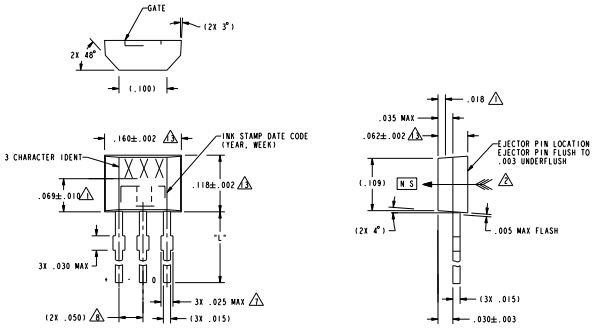
TAPE DIMENSIONS



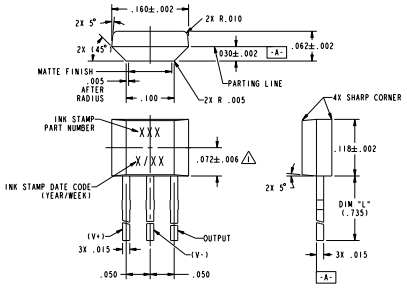
NOTES

1. CENTERLINE OF HALL CELL
2. THE + MAGNETIC FLUX IS IN THE DIRECTION SHOWN (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. LEADS MUST BE ADEQUATELY SUPPORTED DURING ANY FORMING/SHEERING OPERATION TO ASSURE THAT THE LEADS ARE NOT STRESSED WITHIN THE PLASTIC
6. PCB WAVE SOLDERING GUIDELINES ARE AS FOLLOWS: 250°C TO 260°C SOLDERING TEMPERATURE 3 SECONDS MAX SOLDERING TIME
7. BURRS ARE ALLOWED ONLY IF FULL LENGTH OF LEADS WILL PASS THROUGH Ø.023 HOLE.
8. LEAD REFERENCE DIMENSIONS DO NOT INCLUDE SOLDER THICKNESS
9. DIMENSION REFERS TO THE LOCATION OF LEAD CENTERLINES AS THE EXIT THE PLASTIC PACKAGE
10. SOME COMBINATIONS OF BASIC LISTING AND PACKAGE OPTIONS MAY NOT BE AVAILABLE
11. ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL MOMENTARILY WITHSTAND WITHOUT DAMAGE TO THE DEVICE. ELECTRICAL AND MAGNETIC CHARACTERISTICS ARE NOT GUARANTEED IF THE RATED VOLTAGE AND/OR CURRENTS ARE EXCEEDED NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATINGS
12. LEAD STRAIGHTNESS MAY BE DETERIORATED ON SOME UNITS BY BULK PACKAGING. APPLICATIONS HAVING A CRITICAL LEAD STRAIGHTNESS REQUIREMENT SHOULD USE A TAPE PACKAGING OPTION
13. AMMOPACK STYLE "T2" & "T3", 24 SWITCHES BETWEEN FOLDS, SKIP 1 SPACE AT FOLD. MAY BE REFERRED TO AS "FAN FOLD"
14. MOLDED PART DIMENSIONS DO NOT INCLUDE FLASH. FLASH IS LIMITED TO .005 MAX
15. TAPE AND AMMOPACK PER EIA-468

CATALOG LISTING	TAPE STYLE	DIM "L"	DIM "W"	COMMENTS 1
SS49E	NONE	.590	.050	BULK - 1000/BAG
SS49E-T2	T2	.590	.100	5000/BOX
SS49E-T3	T3	.590	.050	5000/BOX
SS49E-L	NONE	.735	.050	BULK - 1000/BAG
SS49E-F	NONE	.590	.100	BULK - 1000/BAG



LEAD STYLES "STD", "T2", "T3"



LEAD STYLES L ONLY

ESD SENSITIVITY: CLASS 3

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929 MICROSWITCH a Honeywell Division

LINEAR HALL EFFECT SENSOR

CATALOG LISTING SS49E SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 10 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.0) +.030

TWO PLACE (.00) +.015

THREE PLACE (.000) +.005

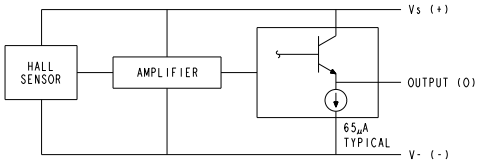
ANGLES +2°

WEIGHT

CHARACTERISTICS ARE AT Vs=5.00 WITH 10K OUTPUT TO MINUS
WITH TA=-40°C TO +85°C UNLESS OTHERWISE SPECIFIED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	1.0	1.4	1.75	mV/GAUSS
NULL	TA = 25°C	2.25	2.50	2.75	VOLTS
SUPPLY CURRENT			6	10.	mA
OUTPUT CURRENT SOURCE	Vs > 3.0	1	1.5		mA
RESPONSE TIME			3		µS
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	1.05	.95		VOLTS
VOM +	+B APPLIED	Vs -1.05	Vs -.95		VOLTS
B LIMITS FOR	-B MAX	-650	-1000		GAUSS
LINEAR OPERATION	+B MAX	+650	+1000		GAUSS
Vnull DRIFT	B = 0, TA = -40°C TO +85°C	-.10		+.10	% / °C
SENSITIVITY DRIFT	TA = +25°C TO +85°C	-.15		+.05	% / °C
SENSITIVITY DRIFT	TA = -40°C TO +25°C	-.04		+.185	% / °C
LINEARITY	B = -650 TO +650		-.7		% OF SPAN
SUPPLY VOLTAGE	-40°C TO +100°C	2.7	5.0	6.5	VOLTS
OPERATING TEMP		-40		+100	°C

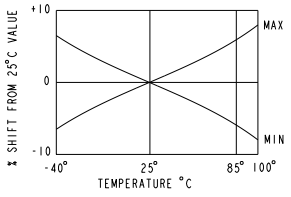
BLOCK DIAGRAM CURRENT SOURCING OUTPUT



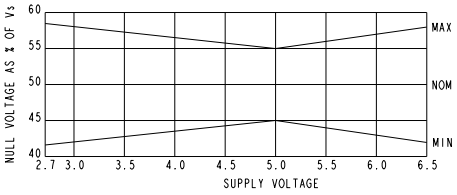
ABSOLUTE MAXIMUM CHARACTERISTICS (10)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	Vs		-0.5	8	V
OUTPUT VOLTAGE	Vout		-0.5	8	V
OUTPUT CURRENT	Iout	SOURCE		10	mA
TEMPERATURE	TA	OPERATING	-40	100	°C
	Ts	STORAGE (Vs=0)	-55	165	°C

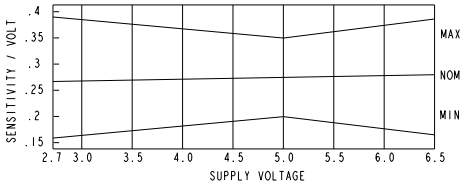
NULL SHIFT VERSUS TEMPERATURE



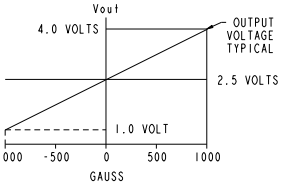
RATIO OF Vnull TO Vs



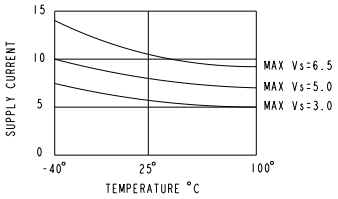
SENSITIVITY/V VERSUS Vs
(mV/Gauss/Volt)



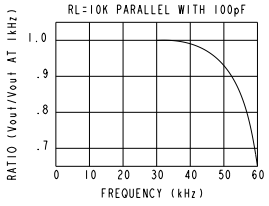
TRANSFER CHARACTERISTICS
AT Vs=5.0 VDC



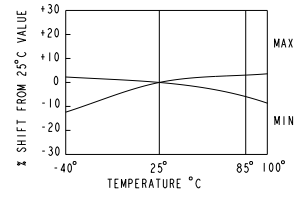
SUPPLY CURRENT
VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE
RL=10K PARALLEL WITH 100pF



SENSITIVITY
SHIFT VERSUS TEMPERATURE



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CATALOG LISTING
SS49E SERIES CHART 1

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