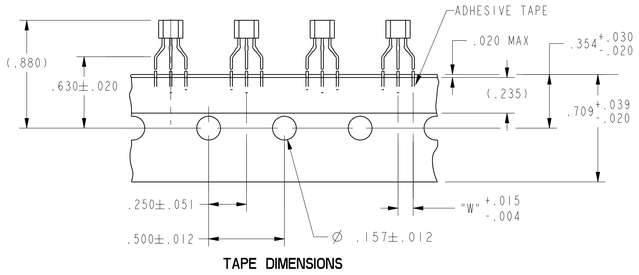
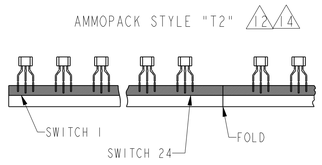
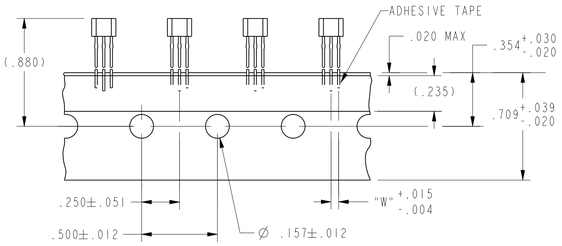
TAPE PACKING OPTIONS



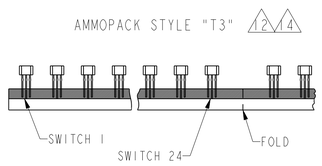
TAPE DIMENSIONS

TAPE STYLE





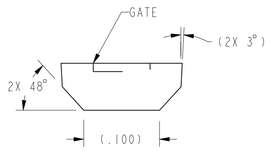
TAPE DIMENSIONS

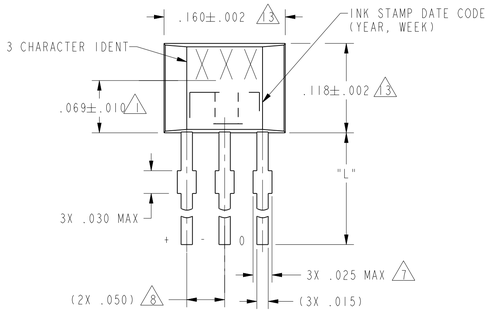


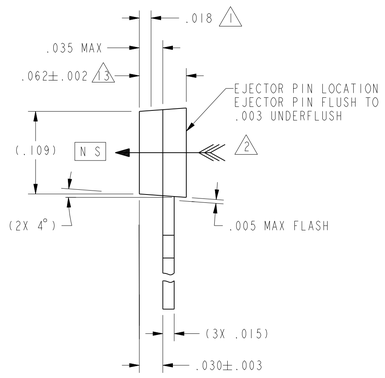
NOTES

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. LEAD REFERENCE DIMENSIONS DO NOT INCLUDE SOLDER THICKNESS
8. DIMENSION REFERS TO THE LOCATION OF LEAD CENTERLINES AS THE EXIT THE PLASTIC PACKAGE
9. SOME COMBINATIONS OF BASIC LISTING AND PACKAGE OPTIONS MAY NOT BE AVAILABLE
10. 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
11. LEAD STRAIGHTNESS MAY BE DETERIORATED ON SOME UNITS BY BULK PACKAGING. APPLICATIONS HAVING A CRITICAL LEAD STRAIGHTNESS REQUIREMENT SHOULD USE A TAPE PACKAGING OPTION
12. AMMOPACK STYLE "T2" & "T3". 24 SWITCHES BETWEEN FOLDS, SKIP 1 SPACE AT FOLD. MAY BE REFERRED TO AS "FAN FOLD"
13. MOLDED PART DIMENSIONS DO NOT INCLUDE FLASH. FLASH IS LIMITED TO .005 MAX
14. TAPE AND AMMOPACK PER EIA-468

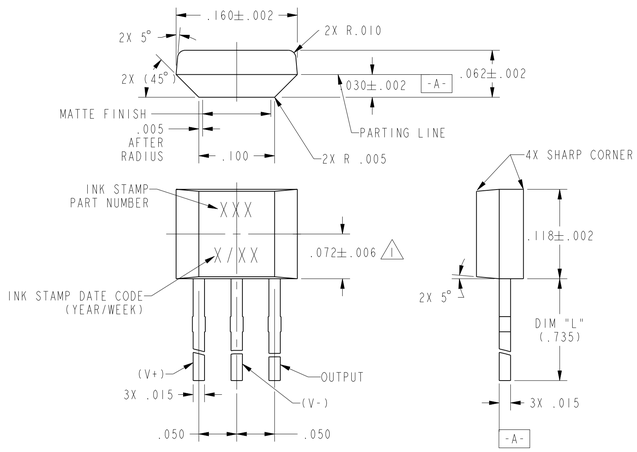
CATALOG LISTING	TAPE STYLE	DIM "L"	DIM "W"	COMMENTS 11
SS49E	NONE	.590	.050	BULK - 1000/BAG
SS49E-T2	T2	.590	.100	5000/BOX
SS49E-T3	T3	.590	.050	5000/BOX
SS49E-L	NONE	.735	.050	BULK - 1000/BAG
SS49E-F	NONE	.590	.100	BULK - 1000/BAG







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



LEAD STYLES L ONLY

CAUTION ELECTROSTATIC SENSITIVE DEVICES DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION

ESD SENSITIVITY: CLASS 3

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929

MICRO SWITCH 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

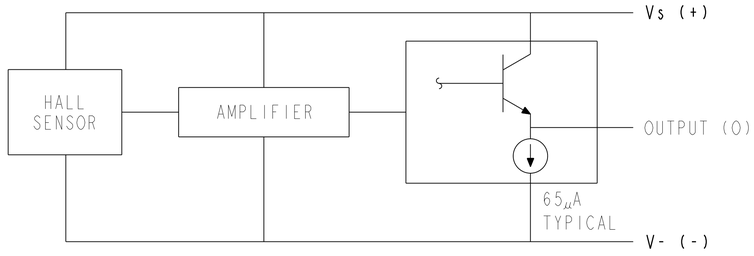
REVISIONS				
A	58531	GRT	2 AUG 02	
B	63197	GLW	2 MAR 03	
C	0000166	TSM	23 APR 03	
D	0000946	GLW	21JUL03	
E	0002137	GSI	2 DEC 03	
F	0014910	PS	2 SEP 05	

DRAWN	GRT	13 JUN 02			
PTC/CAD	2D	CHECK	SAV	3 JUN 02	
		CHECK	VK	2 SEP 05	
		CHECK			
		ISSUE	67		
		DRAWING NUMBER	MSS49E SERIES CHART 1	PAGE 1 OF 2	REPLACES
				RELEASE NO 0000166	

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 LINEAR OPERATION	-B MAX	-650	-1000		GAUSS
	+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

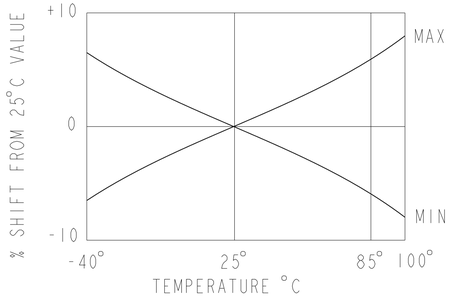
BLOCK DIAGRAM CURRENT SOURCING OUTPUT



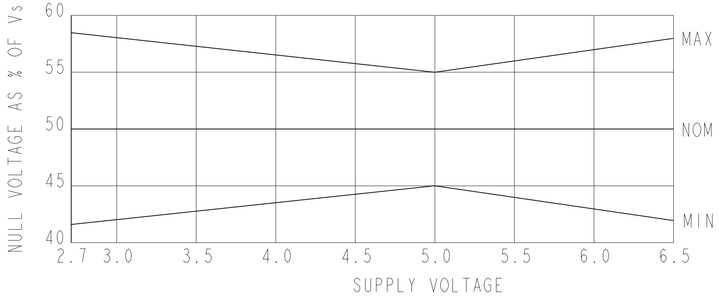
ABSOLUTE MAXIMUM CHARACTERISTICS (10)

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

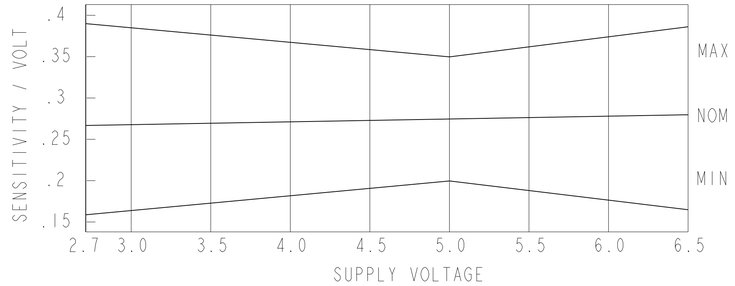
NULL SHIFT VERSUS TEMPERATURE



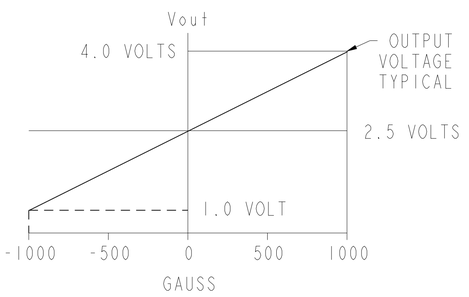
RATIO OF Vnull TO Vs



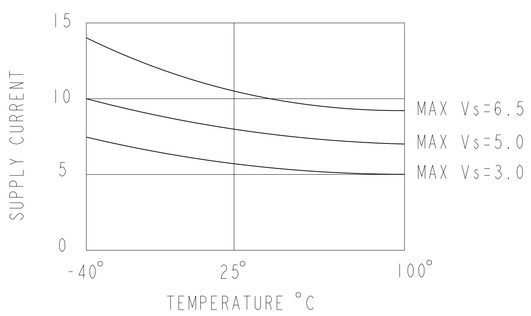
SENSITIVITY/V VERSUS Vs (mV/Gauss/Volt)



TRANSFER CHARACTERISTICS AT Vs=5.0 VDC

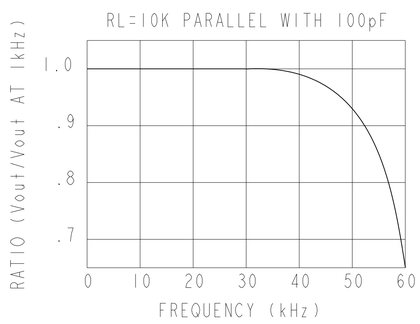


SUPPLY CURRENT VERSUS TEMPERATURE

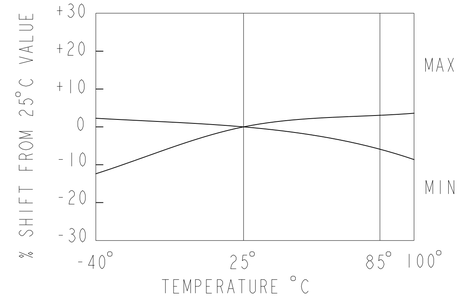


TYPICAL FREQUENCY RESPONSE

RL=10K PARALLEL WITH 100pF



SENSITIVITY SHIFT VERSUS TEMPERATURE



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LINEAR HALL EFFECT SENSOR

CATALOG LISTING: SS49E SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

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

WEIGHT

REVISIONS			
C	0020166	TSM 24APR03	2SEP05
D	0020946	JLN 4JUL03	
E	0021137	CSL 4DEC03	VK
F	0014910	PS 2 SEP 05	

PTC/CAD	2D				
DRAWN	TSM	24APR03	SAV	24APR03	CHECK

ISSUE 67 DRAWING NUMBER

MSS49E SERIES CHART 1 PAGE 2 OF 2 RELEASE NO. 0000166 REPLACES -