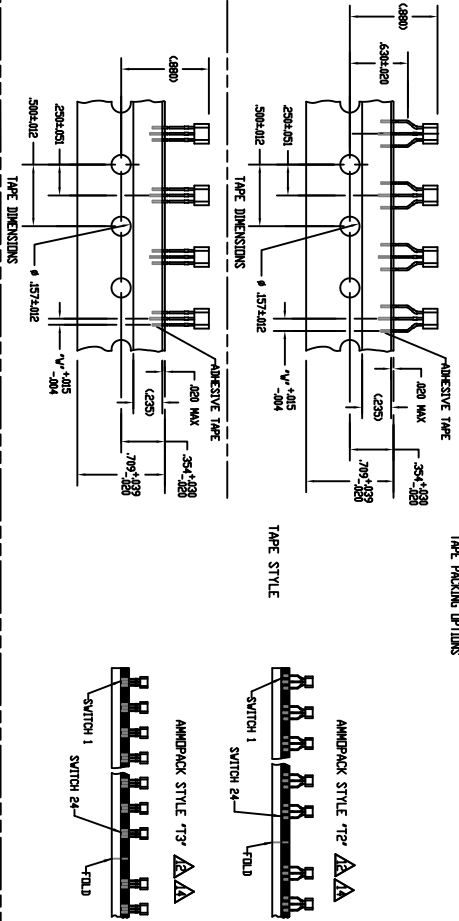
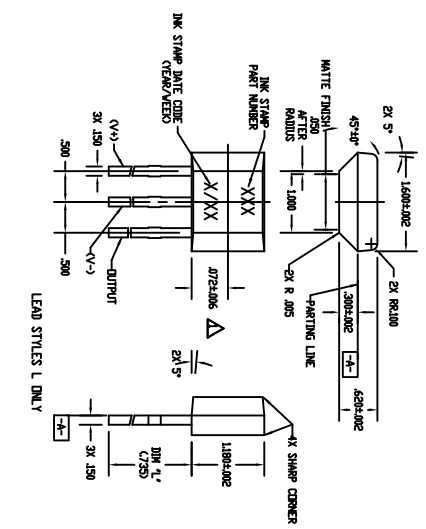
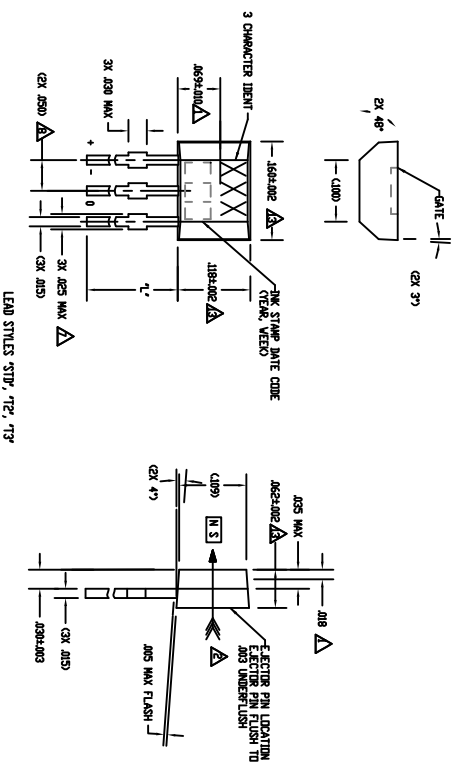


TAPE PACKING OPTIONS



SS49E SERIES CHART 1



- 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 OVEREXPOSURE
 - 4 - DIMENSIONS CANNOT BE DAMAGED BY MAGNETIC OVEREXPOSURE
 - 5 - LEAD STYLE MUST BE RATTLED DURING SUPPORTED SHIPPING/STORAGE OPERATION TO ASSURE THAT THE LEADS ARE NOT STRESSED WITHIN THE PLASTIC
 - 6 - PCB WAVE SOLDERING GUIDELINES ARE AS FOLLOWS:
 a. 250°C TO 260°C SOLDERING TEMPERATURE, 3 SECONDS MAX. SOLDERING TIME.
 b. BURRS ARE ALLOWED ONLY IF FULL LENGTH OF LEADS WILL PASS THROUGH Ø.023 HOLE.
 - 7 - LEAD REFERENCE DIMENSIONS DO NOT INCLUDE SOLDER THICKNESS
 - 8 - DIMENSION REFERS TO THE LOCATION OF LEAD CENTERLINES AS NOT BE AVAILABLE
 - 9 - 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 ABSOLUTE MAXIMUM RATINGS ARE EXCEEDED NOR WILL LEAD STRAIGHTNESS BE DEGRADATED AT ABSOLUTE MAXIMUM RATINGS.
 - 10 - THE DEVICE MUST BE OPERATED AT ABSOLUTE MAXIMUM RATINGS.
 - 11 - USE A HARD PACKAGING OPTION FOR LEAD STRAIGHTNESS REQUIREMENT SHOULD USE A HARD PACKAGING OPTION
 - 12 - AMMPACK STYLE T12 & T13 24 SWITCHES BETWEEN FOLDS, SKIP 1 SPACE AT FOLD. MAY BE REFERRED TO AS 'CAN FLD.'
 - 13 - AMMPACK STYLE T12 & T13 24 SWITCHES BETWEEN FOLDS, SKIP 1 SPACE AT FOLD. MAY BE REFERRED TO AS 'CAN FLD.'

CATALOG LISTING	TAPE STYLE	DIM T1	DIM T2	COMMENTS
SS49E	NONE	.590	.050	BLK - 1000/BAG
SS49E-T12	T12	.590	.100	5000/BOX
SS49E-T13	T13	.590	.050	5000/BOX
SS49E-L	NONE	.755	.050	BLK - 1000/BAG
SS49E-F	NONE	.390	.100	BLK - 1000/BAG

ANSI Y14.5M-1982 APPLIES

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DATE: 10/1/83

SCALE: 1:1

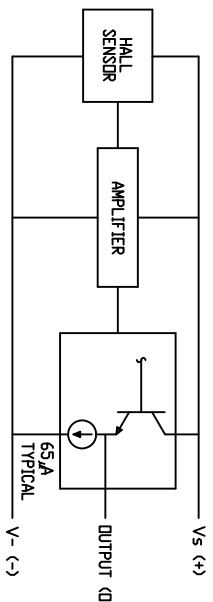
DR: []

UNLESS OTHERWISE SPECIFIED:
 DIM. IN PLACE: .020
 DIM. IN PLACE: .050
 DIM. IN PLACE: .000 ±.005
 DIM. IN PLACE: .010 ±.010
 DIM. IN PLACE: .015 ±.015
 DIM. IN PLACE: .020 ±.020
 DIM. IN PLACE: .025 ±.025
 DIM. IN PLACE: .030 ±.030
 DIM. IN PLACE: .035 ±.035
 DIM. IN PLACE: .040 ±.040
 DIM. IN PLACE: .045 ±.045
 DIM. IN PLACE: .050 ±.050
 DIM. IN PLACE: .055 ±.055
 DIM. IN PLACE: .060 ±.060
 DIM. IN PLACE: .065 ±.065
 DIM. IN PLACE: .070 ±.070
 DIM. IN PLACE: .075 ±.075
 DIM. IN PLACE: .080 ±.080
 DIM. IN PLACE: .085 ±.085
 DIM. IN PLACE: .090 ±.090
 DIM. IN PLACE: .095 ±.095
 DIM. IN PLACE: .100 ±.100

CHARACTERISTICS ARE AT $V_s=5.00$ WITH 10K OUTPUT TO MINUS WITH $T_A=-40^\circ\text{C}$ TO $+85^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^\circ\text{C}$	1.0	1.4	1.75	mV/GAUSS
NULL	$T_A = 25^\circ\text{C}$	2.25	2.50	2.75	VOLTS
SUPPLY CURRENT	$V_s > 3.0$	1	6	10	mA
OUTPUT CURRENT SOURCE		1	1.5		mA
RESPONSE TIME			3		s
OUTPUT VOLTAGE SWING					VOLTS
FROM $V_{DDM} + V_{DDM}$	-B APPLIED	1.05	.95		
	+B APPLIED	$V_s - 1.05$	$V_s - .95$		
B LIMITS FOR LINEAR OPERATION	-B MAX	-6.50	-10.00		GAUSS
	+B MAX	+6.50	+10.00		GAUSS
VNULL DRIFT	$B = 0, T_A = -40^\circ\text{C}$ TO $+85^\circ\text{C}$	-1.0		+1.0	% / °C
SENSITIVITY DRIFT	$T_A = +25^\circ\text{C}$ TO $+125^\circ\text{C}$	-0.1		+0.5	% / °C
SENSITIVITY DRIFT	$T_A = -40^\circ\text{C}$ TO $+25^\circ\text{C}$	0		+0.6	% / °C
SENSITIVITY DRIFT	$T_A = +125^\circ\text{C}$ TO $+150^\circ\text{C}$	-0.4		+0.8	% / °C
LINEARITY	$B = -6.50$ TO $+6.50$	-7		+7	% OF SPAN
SUPPLY VOLTAGE	-40°C TO $+100^\circ\text{C}$	2.7	5.0	6.5	VOLTS
OPERATING TEMP		-40		+100	°C

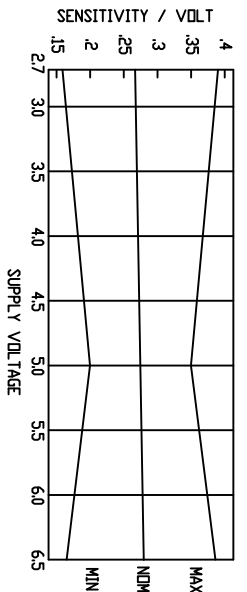
BLOCK DIAGRAM CURRENT SOURCING OUTPUT



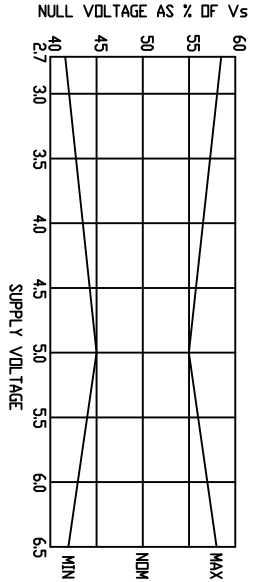
ABSOLUTE MAXIMUM CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_s		-0.5	8	V
OUTPUT VOLTAGE	V_{out}		-0.5	8	V
OUTPUT CURRENT	I_{out}	SOURCE	0	10	mA
TEMPERATURE	T_A	OPERATING	-40	100	°C
	T_S	STORAGE ($V_s=0$)	-55	165	°C

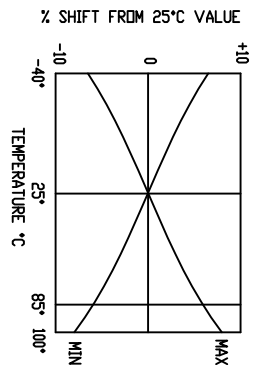
SENSITIVITY/V VERSUS V_s
(mV/Gauss/Volt)



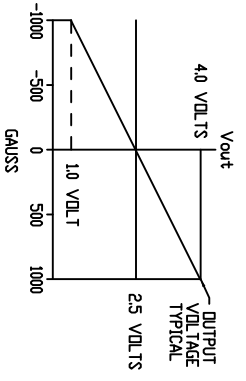
RATIO OF V_{null} TO V_s



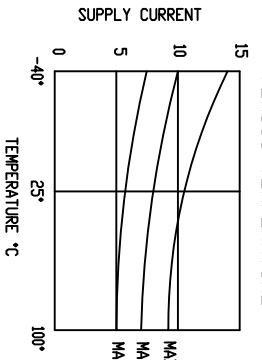
NULL SHIFT VERSUS TEMPERATURE



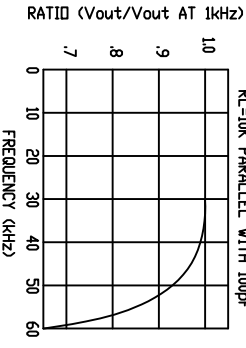
TRANSFER CHARACTERISTICS
AT $V_s=5.0$ VDC



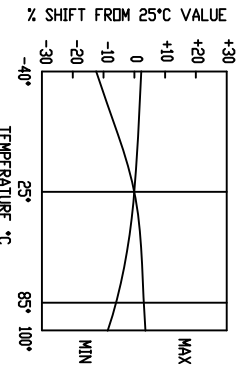
SUPPLY CURRENT
VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE
 $R_L=10K$ PARALLEL WITH 100pF



SENSITIVITY
SHIFT VERSUS TEMPERATURE



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