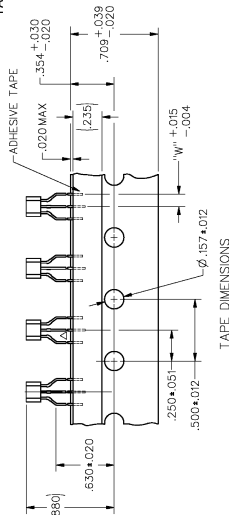
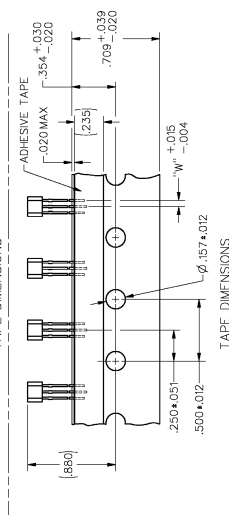


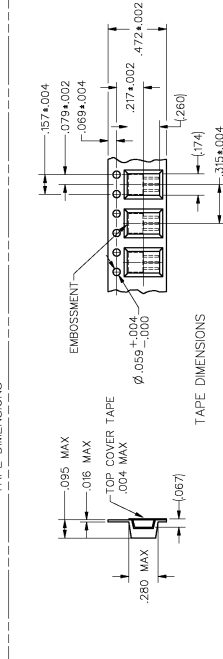
## TAPE PACKING OPTIONS




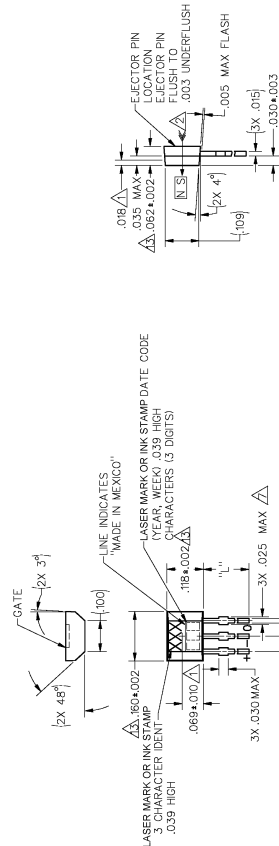
TAPE STYLE



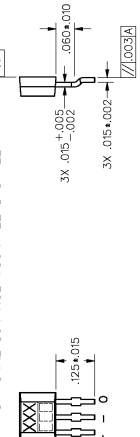
TAPF DIMENSIONS



TAPE STYLE "P" 



OPTIONAL SURFACE MOUNT LEAD STYLE



## 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 - RATIO-METRIC  
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 PEAK FOR 10 S MAY OR 260°C PEAK FOR 5

250 C PEAK FOR 10 S MAX OR 260 C PEAK FOR 3 S MAX  
BURRS ARE ALLOWED ONLY IF FULL LENGTH OF LEADS WILL P

LEAD REFERENCE DIMENSIONS DO NOT INCLUDE SOLDER THICKNESS  
 DIMENSION REFERS TO THE LOCATION OF LEAD CENTERLINES AS THE EXIT THE PLASTIC PACKAGE  
 g - SOME COMBINATIONS OF BASIC LISTING AND PACKAGE OPTIONS MAY NOT BE AVAILABLE

**MO** ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL MOMENTARILY

ARE NOT GUARANTEED IF THE RATED VOLTAGE AND/OR CURRENTS ARE EXCEEDED NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATINGS. ELECTRICAL AND MAGNETIC CHARACTERISTICS WITHSTAND WITHOUT DAMAGE TO THE DEVICE.

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":  
BE DEFERRED TO AS "EAMTOLD"

BE REFERRED TO AS FAN FOLD  
MOLDED PART DIMENSIONS DO NOT INCLUDE FLASH FLASH IS

LIMITED TO .005 MAXIMUM

14 TAPE AND AMMOPACK PER EIA-468

753 POCKET TAPE PER EIA-481

CATALOG LISTING	STYLE	DW 1.1	DW 1.2	COMMENTS
S548A	NONE	590	050	BULK-1000/BAG
S548A-12	NONE	590	050	BULK-1000/BAG
S548A-13	NONE	590	050	BULK-1000/BAG
S548A-14	NONE	590	050	BULK-1000/BAG
S548A-SP	NONE	125	050	1000/PACKET TAPE AND REEL
S548A-12	NONE	590	100	BULK-1000/BAG
S548A-13	NONE	590	100	BULK-1000/BAG
S548A-14	NONE	590	100	BULK-1000/BAG
S548A-SP	NONE	125	050	1000/PACKET TAPE AND REEL
S548B	NONE	590	050	BULK-1000/BAG
S548B-12	T2	590	100	BULK-1000/BAG
S548B-13	NONE	590	050	BULK-1000/BAG
S548B-14	NONE	590	050	BULK-1000/BAG
S548B-SP	NONE	125	050	1000/PACKET TAPE AND REEL

ESD SENSITIVITY:  
CLASS 3

14.5M-190Z APPLIES

THIRD ANGLE PROJECTION

SCALE 5:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

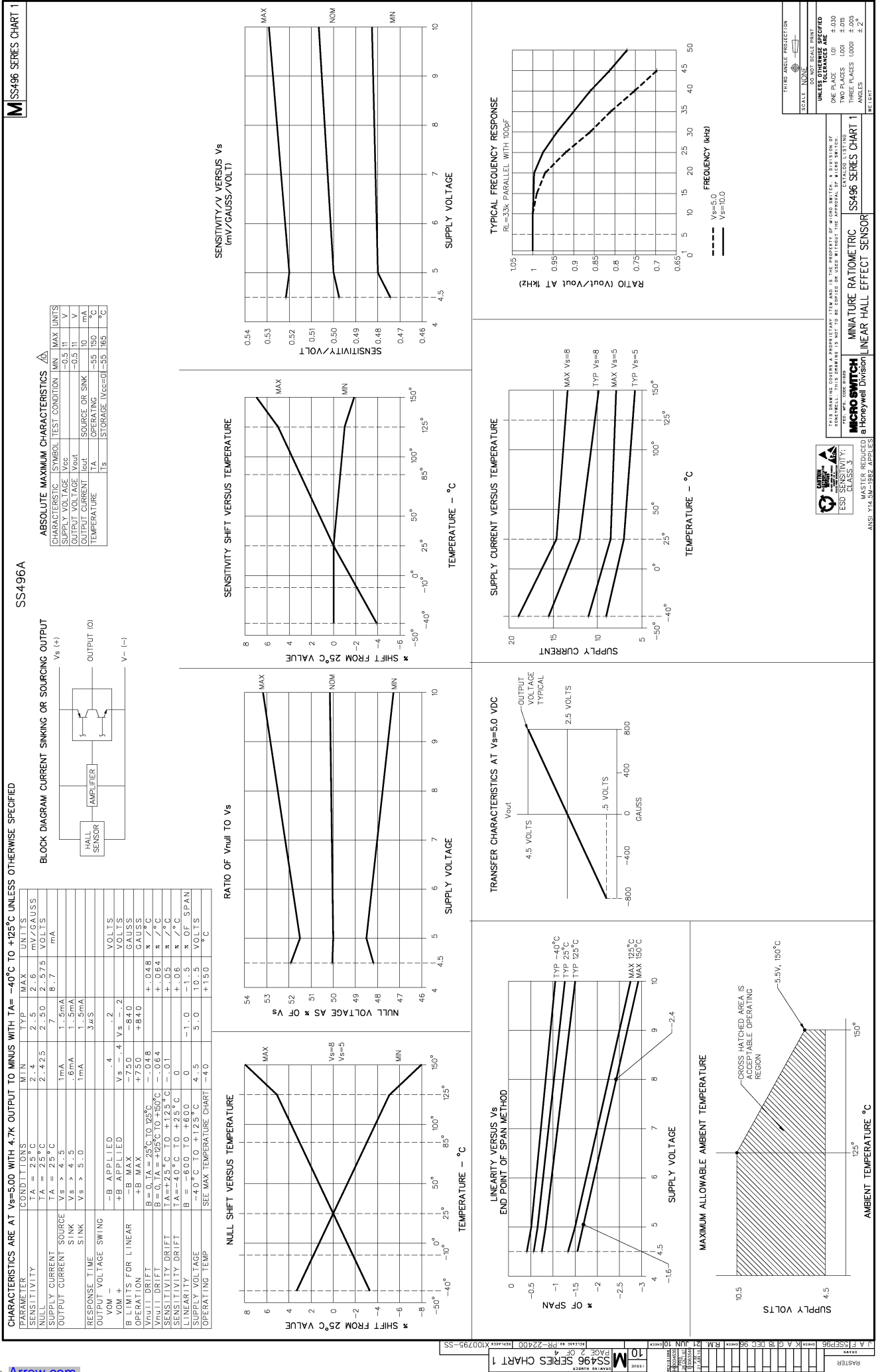
ONE PLACE	LOI	± .030
TWO PLACES	LOO	± .015
THREE PLACES	LOOO	± .005
ANGLES		± 2°

CATALOG LISTING  
SS496 SERIES CHART 1MINIATURE RATIONMETRIC  
EAR HALL EFFECT SENSOR

PEO. WP6 - CODE 01029

**MICRO SWITCH**  
a Honeywell Division

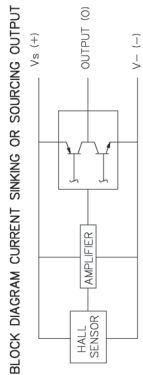
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## SS496A1

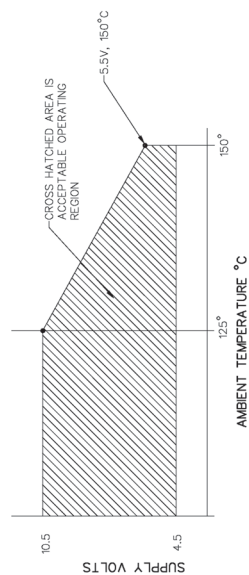
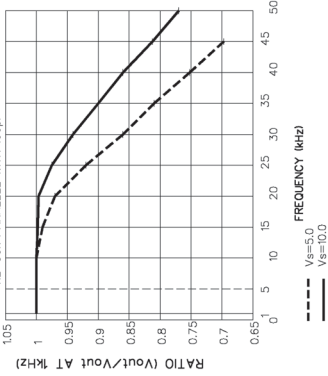
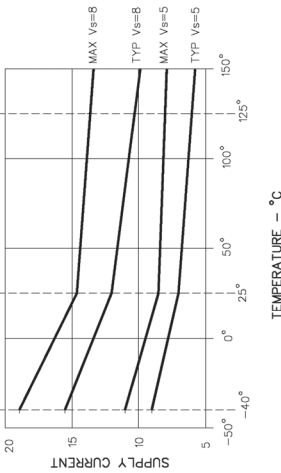
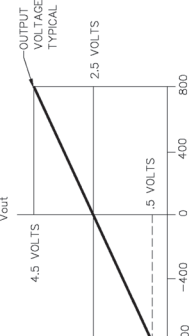
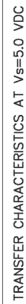
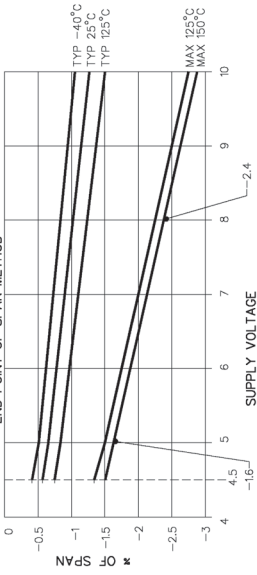
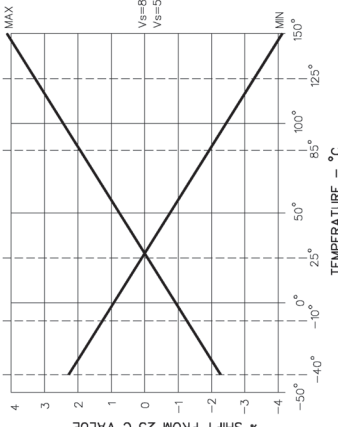
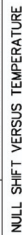
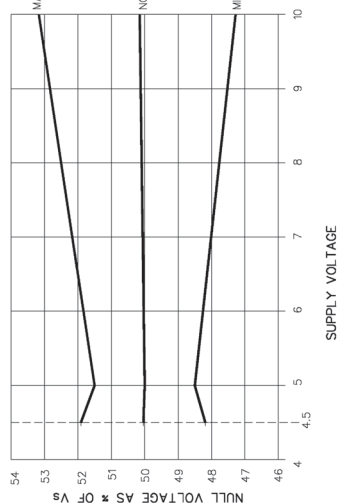
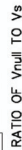
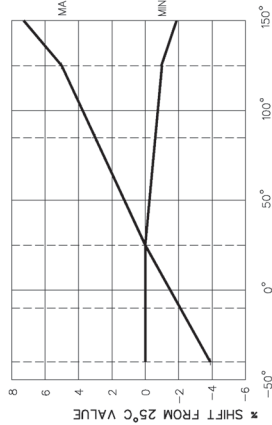
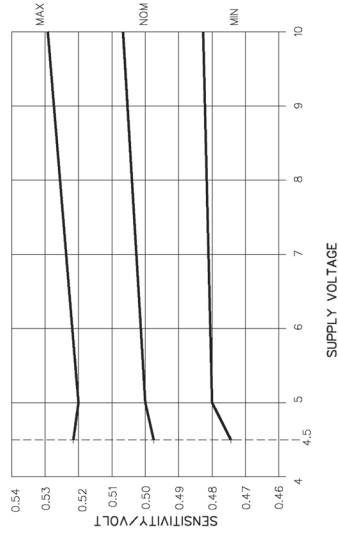
C UNLESS OTHERWISE SPECIFIED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25 °C	2.425	2.500	2.575	mV/GAUSS
NULL	TA = 25 °C	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	TA = 25 °C		7		mA
OUTPUT CURRENT	VS > 4.5	1mA	1.5mA		
SINK	VS > 4.5	.6mA	1.5mA		
SINK	VS > 5.0	1mA	1.5mA		
			3A5		
RESPONSE TIME					
OUTPUT VOLTAGE SWING					
VOM -		.4	2		VOLTS
VOM -		V <sub>OUT</sub> = .4	V <sub>OUT</sub> = 2		VOLTS
BITS FOR LINEAR OPERATION	-B APPLIED +B MAX	750 +840	840 +950		GAUSS
V <sub>NULL</sub> DRIFT		-0.32		+0.32	°C
SENSITIVITY DRIFT	B = 0, TA = +25° TO 125°C	-0.64		+0.64	°C
SENSITIVITY DRIFT	TA = +25 °C TO +150 °C	-0.1		+0.1	°C
SENSITIVITY DRIFT	TA = -40 °C TO +25 °C	-0.1		+0.5	°C
SENSITIVITY DRIFT	TA = +25 °C TO +150 °C	-0.4		+0.6	°C
LINEARITY	B = -600 TO +600	0	-1.0	+0.8	% OF SPAN
SUPPLY VOLTAGE	-40 °C TO +125 °C	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	°C



### ABSOLUTE MAXIMUM CHARACTERISTICS

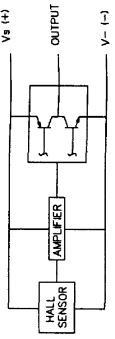
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V <sub>cc</sub>		-0.5	11	V
OUTPUT VOLTAGE	V <sub>out</sub>		-0.5	11	V
OUTPUT CURRENT	I <sub>out</sub>	SOURCE OR SINK	10		mA
TEMPERATURE	T <sub>A</sub>	OPERATING	-55	150	°C
	T <sub>s</sub>	STORAGE (V <sub>cc</sub> =0)	-55	165	°C



CHARACTERISTICS ARE AT  $V_{S}=5.0$  VDC WITH  $I_{A}=4.7$  mA OUTPUT TO MINUS WITH  $T_{A}=-40^{\circ}\text{C}$  TO  $+125^{\circ}\text{C}$  UNLESS OTHERWISE SPECIFIED

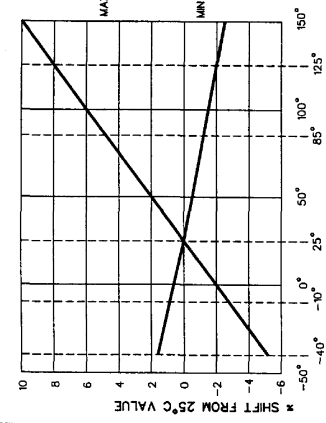
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_{A}=25^{\circ}\text{C}$	2.300	2.500	2.700	mV/GAUSS
NULL VOLTAGE	$T_{A}=25^{\circ}\text{C}$	2.350	2.50	2.650	VOLTS
SUPPLY CURRENT	$V_{S}=5.0$ VDC	7	8	8.7	mA
OUTPUT CURRENT	SOURCE	1 mA	1.5 mA	1.5 mA	mA
	SINK	1 mA	1.5 mA	1.5 mA	mA
RESPONSE TIME	SWING	4	2	2	μS
OUTPUT VOLTAGE SWING	MIN	-4	-2	-2	VOLTS
	MAX	4	2	2	VOLTS
B LIMITS FOR LINEAR OPERATION	-B MAX	-750	-840	-840	GAUSS
	+B MAX	+750	+840	+840	GAUSS
NULL DRIFT	$B=0, T_{A}=25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$	-0.04	0	0.04	%/°C
SENSITIVITY DRIFT	$B=0, T_{A}=25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$	-0.04	0	0.04	%/°C
SENSITIVITY DRIFT	$T_{A}=25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$	-0.02	0	0.02	%/°C
LINEARITY	$T_{A}=25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$	-0.02	0	0.02	%/°C
NULL VOLTAGE	$T_{A}=25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$	-0.02	0	0.02	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40	150	150	°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT

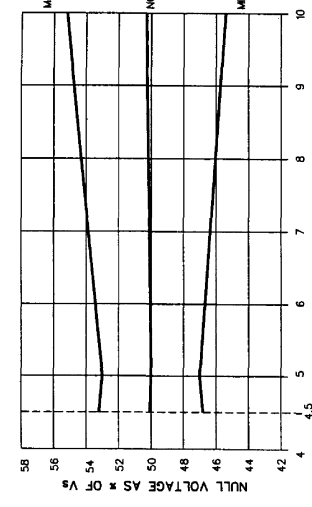


CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	$V_{S}$		4.5	5.0	V
OUTPUT CURRENT	$I_{A}$		0.5	1.5	mA
TEMPERATURE	$T_{A}$		-55	150	°C
STORAGE	$V_{S}$		-55	150	°C

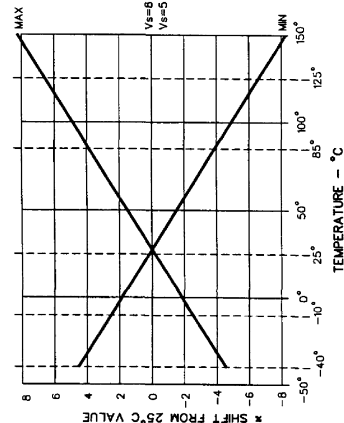
SENSITIVITY SHIFT VERSUS TEMPERATURE



RATIO OF  $V_{null}$  TO  $V_{S}$

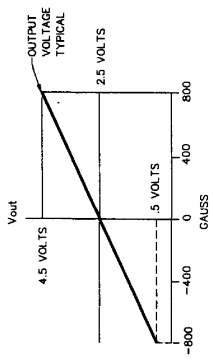


NULL SHIFT VERSUS TEMPERATURE

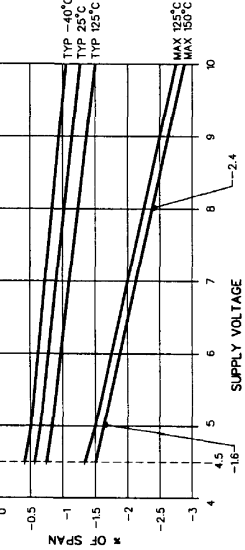


SUPPLY VOLTAGE

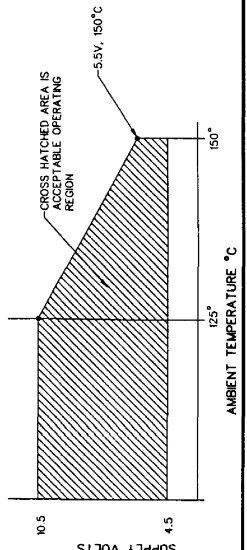
TRANSFER CHARACTERISTICS AT  $V_{S}=5.0$  VDC



LINEARITY VERSUS  $V_{S}$

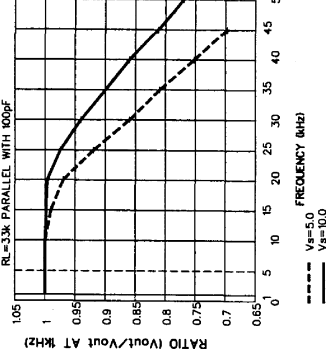


MAXIMUM ALLOWABLE AMBIENT TEMPERATURE

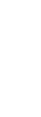
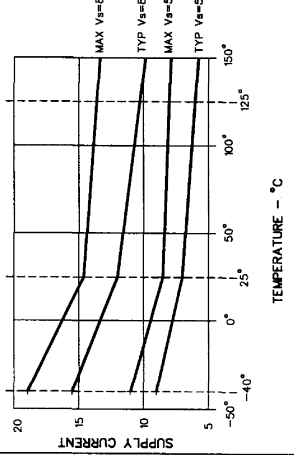


SUPPLY VOLTAGE

TYPICAL FREQUENCY RESPONSE



SUPPLY CURRENT VERSUS TEMPERATURE



MINIATURE RATIO-METRIC  
Hall Effect Sensor  
ANALOG OUTPUT  
1.5V, 5V, 10V, 15V, 20V, 25V, 30V, 35V, 40V, 45V, 50V, 55V, 60V, 65V, 70V, 75V, 80V, 85V, 90V, 95V, 100V, 105V, 110V, 115V, 120V, 125V, 130V, 135V, 140V, 145V, 150V, 155V, 160V, 165V, 170V, 175V, 180V, 185V, 190V, 195V, 200V, 205V, 210V, 215V, 220V, 225V, 230V, 235V, 240V, 245V, 250V, 255V, 260V, 265V, 270V, 275V, 280V, 285V, 290V, 295V, 300V, 305V, 310V, 315V, 320V, 325V, 330V, 335V, 340V, 345V, 350V, 355V, 360V, 365V, 370V, 375V, 380V, 385V, 390V, 395V, 400V, 405V, 410V, 415V, 420V, 425V, 430V, 435V, 440V, 445V, 450V, 455V, 460V, 465V, 470V, 475V, 480V, 485V, 490V, 495V, 500V, 505V, 510V, 515V, 520V, 525V, 530V, 535V, 540V, 545V, 550V, 555V, 560V, 565V, 570V, 575V, 580V, 585V, 590V, 595V, 600V, 605V, 610V, 615V, 620V, 625V, 630V, 635V, 640V, 645V, 650V, 655V, 660V, 665V, 670V, 675V, 680V, 685V, 690V, 695V, 700V, 705V, 710V, 715V, 720V, 725V, 730V, 735V, 740V, 745V, 750V, 755V, 760V, 765V, 770V, 775V, 780V, 785V, 790V, 795V, 800V, 805V, 810V, 815V, 820V, 825V, 830V, 835V, 840V, 845V, 850V, 855V, 860V, 865V, 870V, 875V, 880V, 885V, 890V, 895V, 900V, 905V, 910V, 915V, 920V, 925V, 930V, 935V, 940V, 945V, 950V, 955V, 960V, 965V, 970V, 975V, 980V, 985V, 990V, 995V, 1000V, 1005V, 1010V, 1015V, 1020V, 1025V, 1030V, 1035V, 1040V, 1045V, 1050V, 1055V, 1060V, 1065V, 1070V, 1075V, 1080V, 1085V, 1090V, 1095V, 1100V, 1105V, 1110V, 1115V, 1120V, 1125V, 1130V, 1135V, 1140V, 1145V, 1150V, 1155V, 1160V, 1165V, 1170V, 1175V, 1180V, 1185V, 1190V, 1195V, 1200V, 1205V, 1210V, 1215V, 1220V, 1225V, 1230V, 1235V, 1240V, 1245V, 1250V, 1255V, 1260V, 1265V, 1270V, 1275V, 1280V, 1285V, 1290V, 1295V, 1300V, 1305V, 1310V, 1315V, 1320V, 1325V, 1330V, 1335V, 1340V, 1345V, 1350V, 1355V, 1360V, 1365V, 1370V, 1375V, 1380V, 1385V, 1390V, 1395V, 1400V, 1405V, 1410V, 1415V, 1420V, 1425V, 1430V, 1435V, 1440V, 1445V, 1450V, 1455V, 1460V, 1465V, 1470V, 1475V, 1480V, 1485V, 1490V, 1495V, 1500V, 1505V, 1510V, 1515V, 1520V, 1525V, 1530V, 1535V, 1540V, 1545V, 1550V, 1555V, 1560V, 1565V, 1570V, 1575V, 1580V, 1585V, 1590V, 1595V, 1600V, 1605V, 1610V, 1615V, 1620V, 1625V, 1630V, 1635V, 1640V, 1645V, 1650V, 1655V, 1660V, 1665V, 1670V, 1675V, 1680V, 1685V, 1690V, 1695V, 1700V, 1705V, 1710V, 1715V, 1720V, 1725V, 1730V, 1735V, 1740V, 1745V, 1750V, 1755V, 1760V, 1765V, 1770V, 1775V, 1780V, 1785V, 1790V, 1795V, 1800V, 1805V, 1810V, 1815V, 1820V, 1825V, 1830V, 1835V, 1840V, 1845V, 1850V, 1855V, 1860V, 1865V, 1870V, 1875V, 1880V, 1885V, 1890V, 1895V, 1900V, 1905V, 1910V, 1915V, 1920V, 1925V, 1930V, 1935V, 1940V, 1945V, 1950V, 1955V, 1960V, 1965V, 1970V, 1975V, 1980V, 1985V, 1990V, 1995V, 2000V, 2005V, 2010V, 2015V, 2020V, 2025V, 2030V, 2035V, 2040V, 2045V, 2050V, 2055V, 2060V, 2065V, 2070V, 2075V, 2080V, 2085V, 2090V, 2095V, 2100V, 2105V, 2110V, 2115V, 2120V, 2125V, 2130V, 2135V, 2140V, 2145V, 2150V, 2155V, 2160V, 2165V, 2170V, 2175V, 2180V, 2185V, 2190V, 2195V, 2200V, 2205V, 2210V, 2215V, 2220V, 2225V, 2230V, 2235V, 2240V, 2245V, 2250V, 2255V, 2260V, 2265V, 2270V, 2275V, 2280V, 2285V, 2290V, 2295V, 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3015V, 3020V, 3025V, 3030V, 3035V, 3040V, 3045V, 3050V, 3055V, 3060V, 3065V, 3070V, 3075V, 3080V, 3085V, 3090V, 3095V, 3100V, 3105V, 3110V, 3115V, 3120V, 3125V, 3130V, 3135V, 3140V, 3145V, 3150V, 3155V, 3160V, 3165V, 3170V, 3175V, 3180V, 3185V, 3190V, 3195V, 3200V, 3205V, 3210V, 3215V, 3220V, 3225V, 3230V, 3235V, 3240V, 3245V, 3250V, 3255V, 3260V, 3265V, 3270V, 3275V, 3280V, 3285V, 3290V, 3295V, 3300V, 3305V, 3310V, 3315V, 3320V, 3325V, 3330V, 3335V, 3340V, 3345V, 3350V, 3355V, 3360V, 3365V, 3370V, 3375V, 3380V, 3385V, 3390V, 3395V, 3400V, 3405V, 3410V, 3415V, 3420V, 3425V, 3430V, 3435V, 3440V, 3445V, 3450V, 3455V, 3460V, 3465V, 3470V, 3475V, 3480V, 3485V, 3490V, 3495V, 3500V, 3505V, 3510V, 3515V, 3520V, 3525V, 3530V, 3535V, 3540V, 3545V, 3550V, 3555V, 3560V, 3565V, 3570V, 3575V, 3580V, 3585V, 3590V, 3595V, 3600V, 3605V, 3610V, 3615V, 3620V, 3625V, 3630V, 3635V, 3640V, 3645V, 3650V, 3655V, 3660V, 3665V, 3670V, 3675V, 3680V, 3685V, 3690V, 3695V, 3700V, 3705V, 3710V, 3715V, 3720V, 3725V, 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6590V, 6595V, 6600V, 6605V, 6610V, 6615V, 6620V, 6625V, 6630V, 6635V, 6640V, 6645V, 6650V, 6655V, 6660V, 6665V, 6670V, 6675V, 6680V, 6685V, 6690V, 6695V, 6700V, 6705V, 6710V, 6715V, 6720V, 6725V, 6730V, 6735V, 6740V, 6745V, 6750V, 6755V, 6760V, 6765V, 6770V, 6775V, 6780V, 6785V, 6790V, 6795V, 6800V, 6805V, 6810V, 6815V, 6820V, 6825V, 6830V, 6835V, 6840V, 6845V, 6850V, 6855V, 6860V, 6865V, 6870V, 6875V, 6880V, 6885V, 6890V, 6895V, 6900V, 6905V, 6910V, 6915V, 6920V, 6925V, 6930V, 6935V, 6940V, 6945V, 6950V, 6955V, 6960V, 6965V, 6