

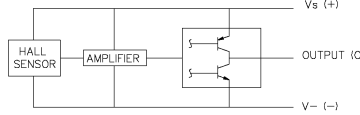
CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A = -40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496A

SS496 SERIES CHART 1

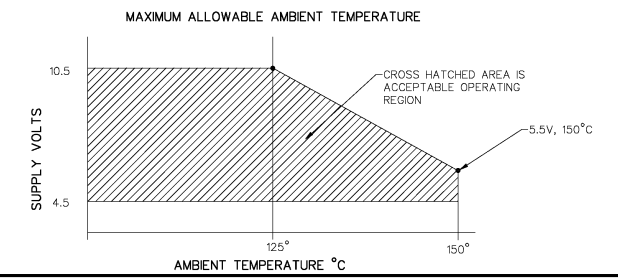
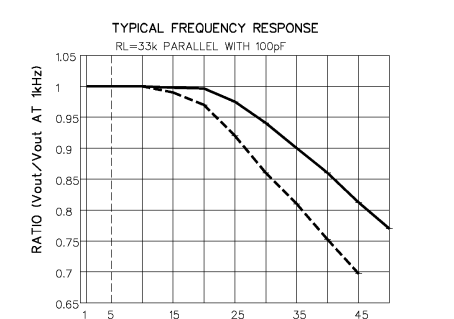
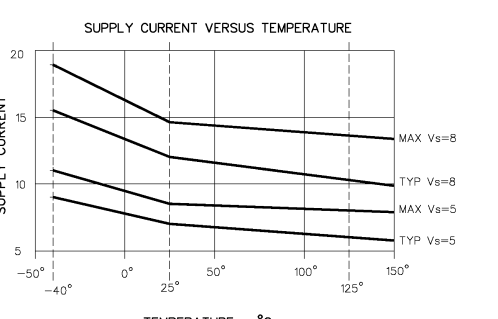
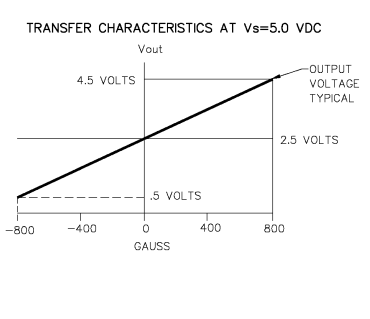
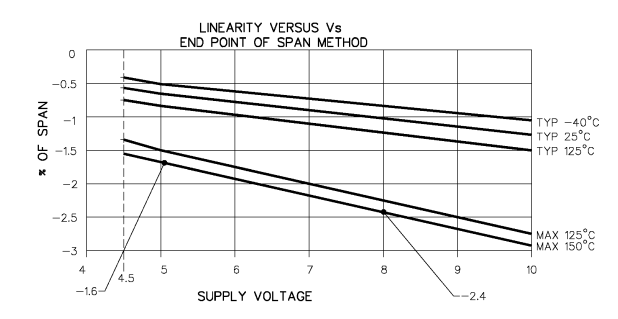
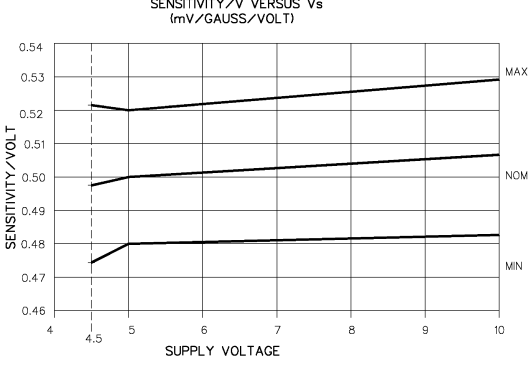
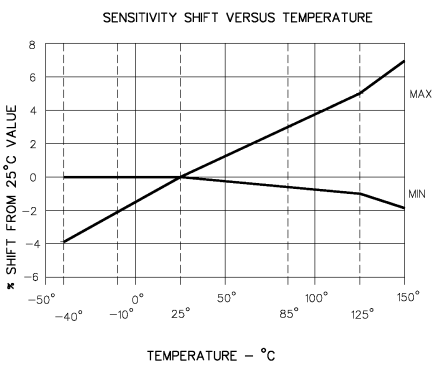
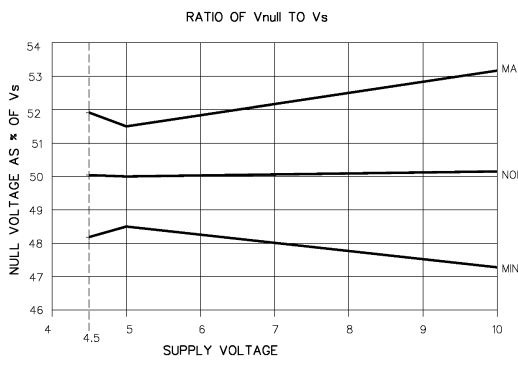
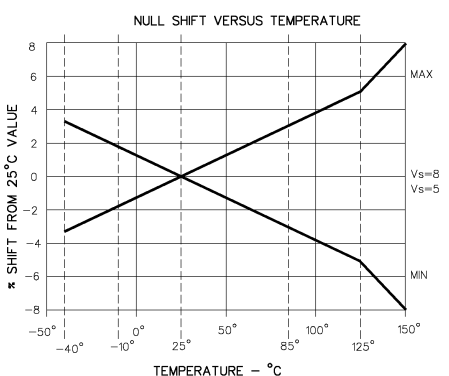
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.4	2.5	2.6	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
OUTPUT CURRENT SINK	$V_s > 4.5$.6mA	1.5mA		
OUTPUT CURRENT SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3μs		
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.4	.2		VOLTS
VOM +	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					
-B MAX		-750	-840		GAUSS
+B MAX		+750	+840		GAUSS
Vnull DRIFT	$B = 0, T_A = 25^{\circ}\text{C}$ TO 125°C		-0.048		% / °C
Vnull DRIFT	$B = 0, T_A = +125^{\circ}\text{C}$ TO $+150^{\circ}\text{C}$		-0.064		% / °C
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$		-0.01		% / °C
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C}$ TO $+25^{\circ}\text{C}$		0		% / °C
LINEARITY	$B = -600$ TO $+600$		-1.0		% OF SPAN
SUPPLY VOLTAGE	-40°C TO $+125^{\circ}\text{C}$	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



ABSOLUTE MAXIMUM CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_{cc}		-0.5	11	V
OUTPUT VOLTAGE	V_{out}		-0.5	11	V
OUTPUT CURRENT	I_{out}	SOURCE OR SINK		10	mA
TEMPERATURE	T_A	OPERATING	-55	150	°C
	T_s	STORAGE ($V_{cc}=0$)	-55	165	°C



CAUTION
ESD SENSITIVITY:
CLASS 3

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.
PRO. WPS. 0006 01999
MICRO SWITCH
Honeywell Division
MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

MINIATURE RATIO-METRIC
LINEAR HALL EFFECT SENSOR
CATALOG LISTING
SS496 SERIES CHART 1

THIRD ANGLE PROJECTION
DO NOT SCALE PRINT
SCALE: NONE
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:
ONE PLACE .010 ±.030
TWO PLACES .001 ±.015
THREE PLACES .0001 ±.0005
ANGLES ±2°
WEIGHT

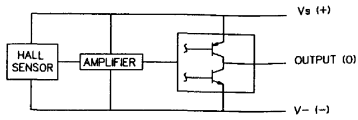
DRAWING NUMBER: SS496 SERIES CHART 1
 OF: 10
 PAGE: 7
 REVISED: 10/03/95
 BY: J.A. HENSELBERG
 CHECKED: G. G. B. DELOACH
 APPROVED: J.A. HENSELBERG
 RASTER

CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A=-40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496B

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.300	2.500	2.700	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.350	2.50	2.650	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$	6mA	1.5mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3 μ S		
OUTPUT VOLTAGE SWING					
VOM +	-B APPLIED	.4	.2		VOLTS
VOM -	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					GAUSS
-B MAX		-750	-840		
+B MAX		+750	+840		
Vnull DRIFT	$B = 0, T_A = 25^{\circ}\text{ TO } 125^{\circ}\text{C}$	-.064		+ .064	μ / $^{\circ}\text{C}$
Vnull DRIFT	$B = 0, T_A = +125^{\circ}\text{ TO } +150^{\circ}\text{C}$	-.064		+ .064	μ / $^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C TO } +150^{\circ}\text{C}$	-.02		+ .08	μ / $^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C TO } +25^{\circ}\text{C}$	-.02		+ .08	μ / $^{\circ}\text{C}$
LINEARITY	$B = -600\text{ TO } +600$	0	-1.0	+1.5	% OF SPAN
SUPPLY VOLTAGE	$-40^{\circ}\text{C TO } +125^{\circ}\text{C}$	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	$^{\circ}\text{C}$

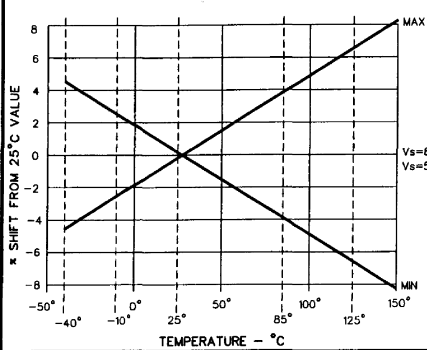
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



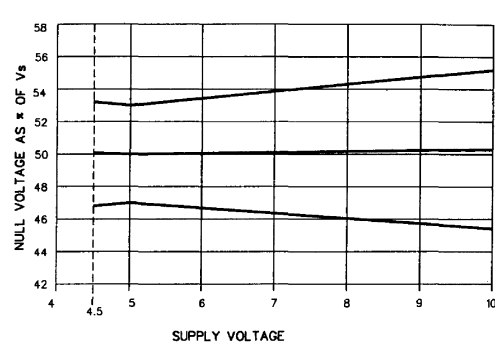
ABSOLUTE MAXIMUM CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_{cc}		-0.5	11	V
OUTPUT VOLTAGE	V_{out}		-0.5	11	V
OUTPUT CURRENT	I_{out}	SOURCE OR SINK		10	mA
TEMPERATURE	T_A	OPERATING	-55	150	$^{\circ}\text{C}$
	T_s	STORAGE ($V_{cc}=0$)	-55	165	$^{\circ}\text{C}$

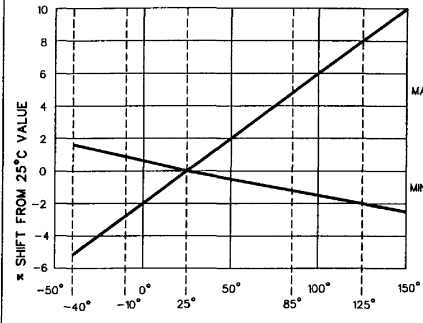
NULL SHIFT VERSUS TEMPERATURE



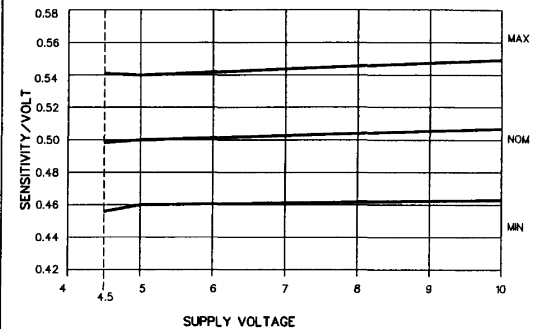
RATIO OF V_{null} TO V_s



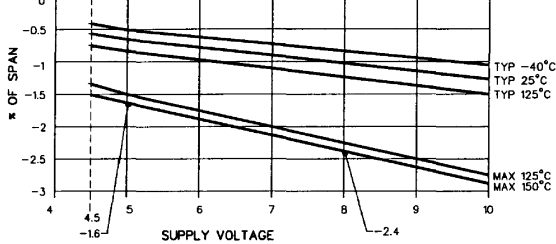
SENSITIVITY SHIFT VERSUS TEMPERATURE



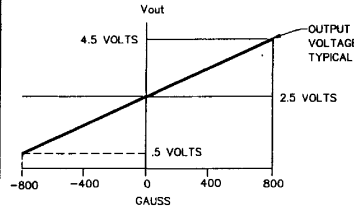
SENSITIVITY/V VERSUS V_s (mV/GAUSS/VOLTI)



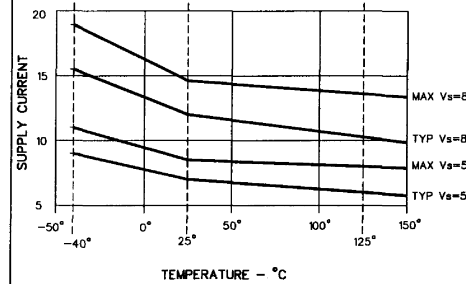
LINEARITY VERSUS V_s END POINT OF SPAN METHOD



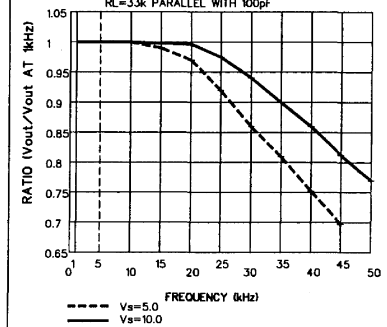
TRANSFER CHARACTERISTICS AT $V_s=5.0$ VDC



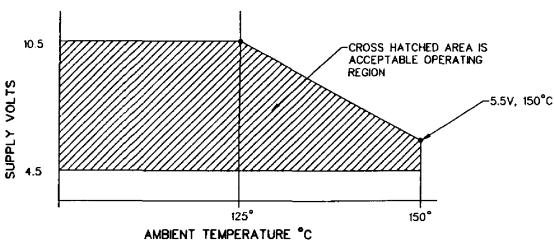
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.

MINIATURE RATIO-METRIC LINEAR HALL EFFECT SENSOR

ONE PLACE	TWO PLACES	THREE PLACES	ANGLES
±0.030	±0.015	±0.005	±2°

MICRO SWITCH
 SS496 SERIES CHART 1
 PAGE 4 OF 4
 REVISIONS
 1. 12/19/88
 2. 12/19/88
 3. 12/19/88
 4. 12/19/88
 5. 12/19/88
 6. 12/19/88
 7. 12/19/88
 8. 12/19/88
 9. 12/19/88
 10. 12/19/88
 11. 12/19/88
 12. 12/19/88
 13. 12/19/88
 14. 12/19/88
 15. 12/19/88
 16. 12/19/88
 17. 12/19/88
 18. 12/19/88
 19. 12/19/88
 20. 12/19/88
 21. 12/19/88
 22. 12/19/88
 23. 12/19/88
 24. 12/19/88
 25. 12/19/88
 26. 12/19/88
 27. 12/19/88
 28. 12/19/88
 29. 12/19/88
 30. 12/19/88
 31. 12/19/88
 32. 12/19/88
 33. 12/19/88
 34. 12/19/88
 35. 12/19/88
 36. 12/19/88
 37. 12/19/88
 38. 12/19/88
 39. 12/19/88
 40. 12/19/88
 41. 12/19/88
 42. 12/19/88
 43. 12/19/88
 44. 12/19/88
 45. 12/19/88
 46. 12/19/88
 47. 12/19/88
 48. 12/19/88
 49. 12/19/88
 50. 12/19/88
 51. 12/19/88
 52. 12/19/88
 53. 12/19/88
 54. 12/19/88
 55. 12/19/88
 56. 12/19/88
 57. 12/19/88
 58. 12/19/88
 59. 12/19/88
 60. 12/19/88
 61. 12/19/88
 62. 12/19/88
 63. 12/19/88
 64. 12/19/88
 65. 12/19/88
 66. 12/19/88
 67. 12/19/88
 68. 12/19/88
 69. 12/19/88
 70. 12/19/88
 71. 12/19/88
 72. 12/19/88
 73. 12/19/88
 74. 12/19/88
 75. 12/19/88
 76. 12/19/88
 77. 12/19/88
 78. 12/19/88
 79. 12/19/88
 80. 12/19/88
 81. 12/19/88
 82. 12/19/88
 83. 12/19/88
 84. 12/19/88
 85. 12/19/88
 86. 12/19/88
 87. 12/19/88
 88. 12/19/88
 89. 12/19/88
 90. 12/19/88
 91. 12/19/88
 92. 12/19/88
 93. 12/19/88
 94. 12/19/88
 95. 12/19/88
 96. 12/19/88
 97. 12/19/88
 98. 12/19/88
 99. 12/19/88
 100. 12/19/88

MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9