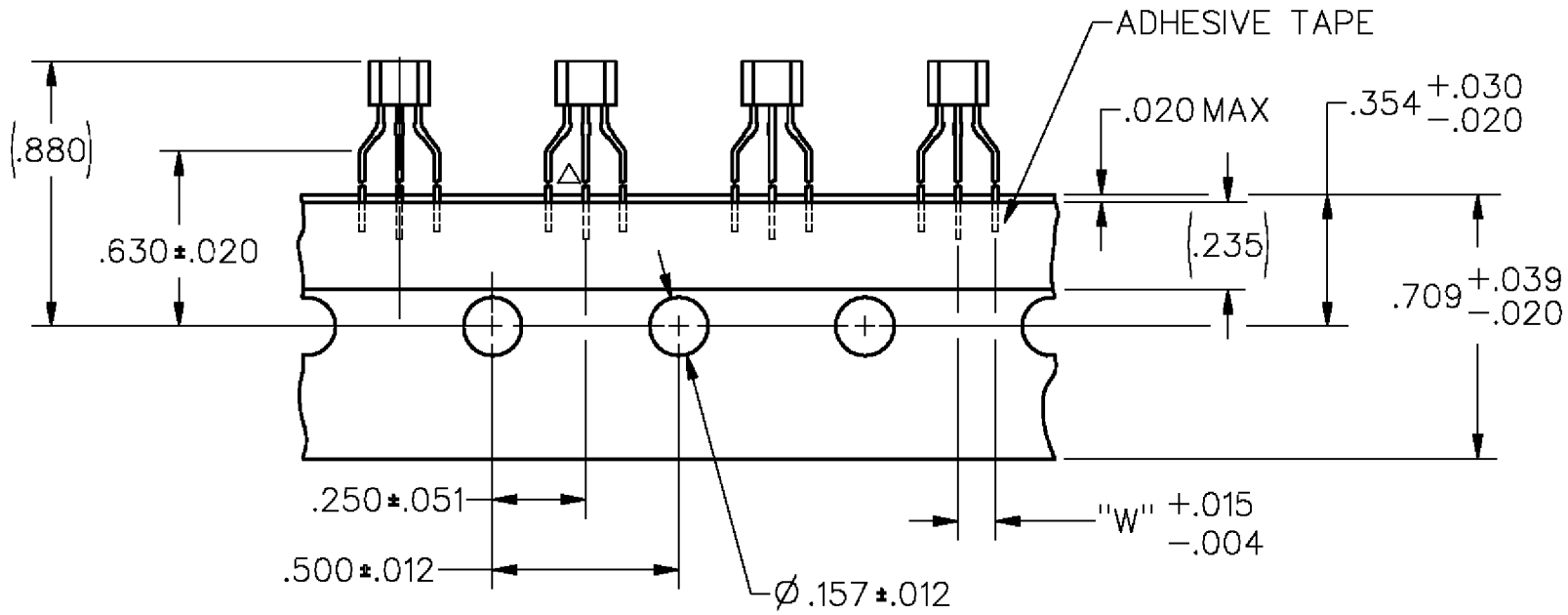
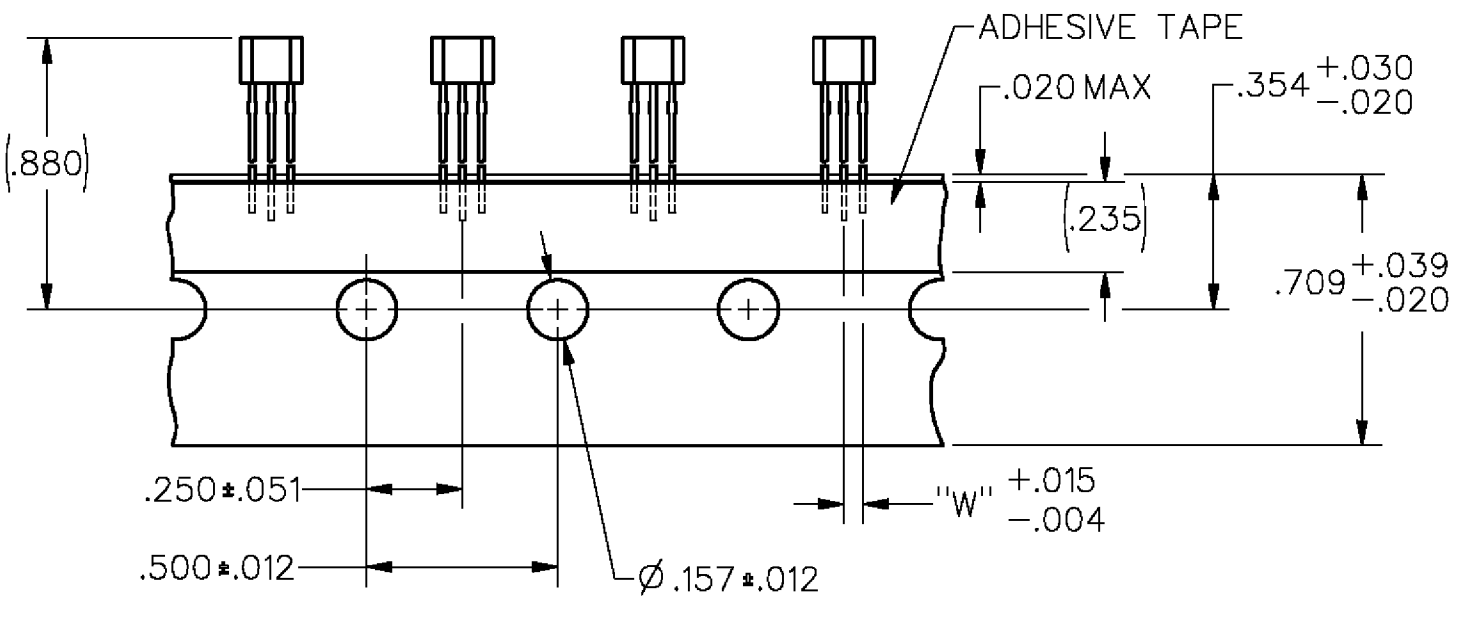
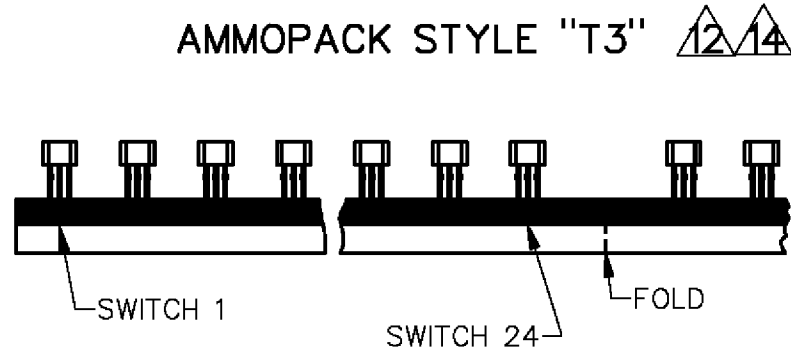
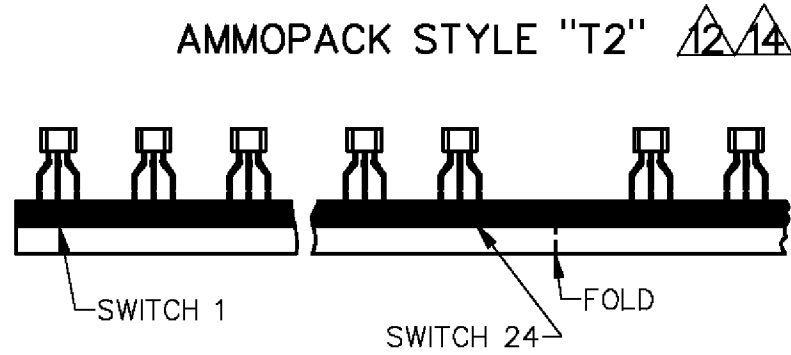


TAPE PACKING OPTIONS

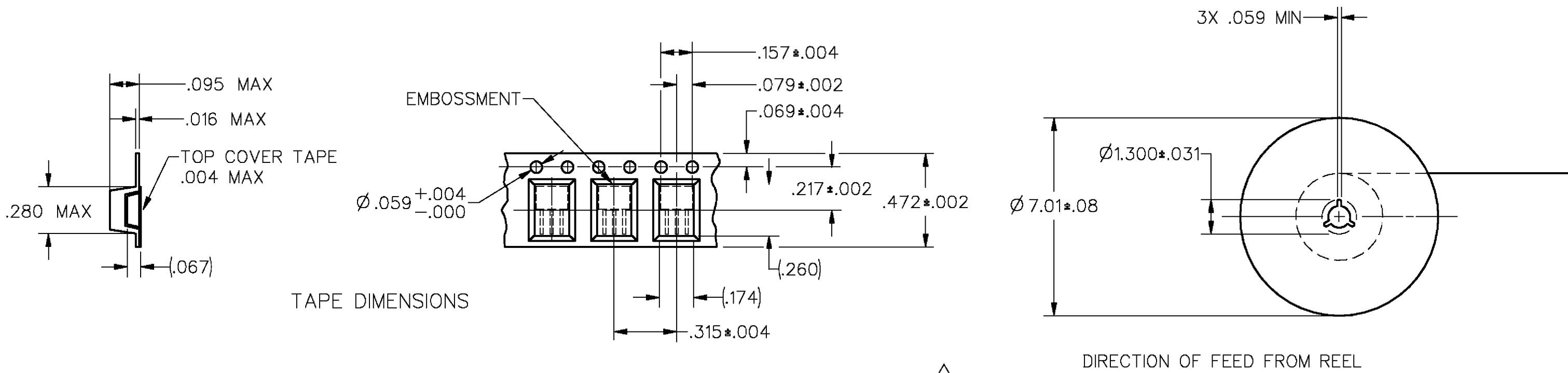


TAPE DIMENSIONS

TAPE STYLE



TAPE DIMENSIONS



TAPE DIMENSIONS

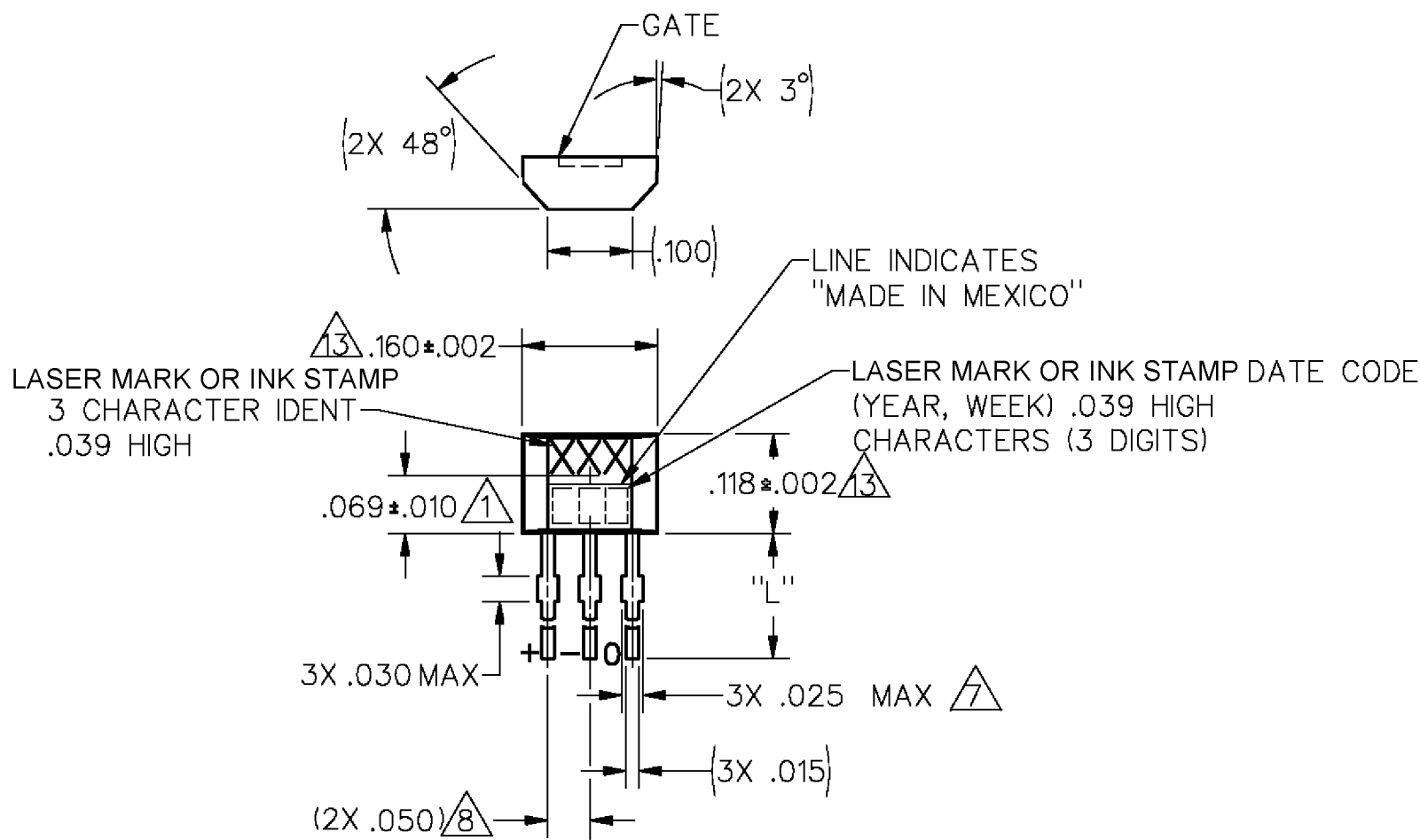
TAPE STYLE "P"

DIRECTION OF FEED FROM REEL

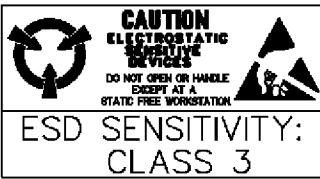
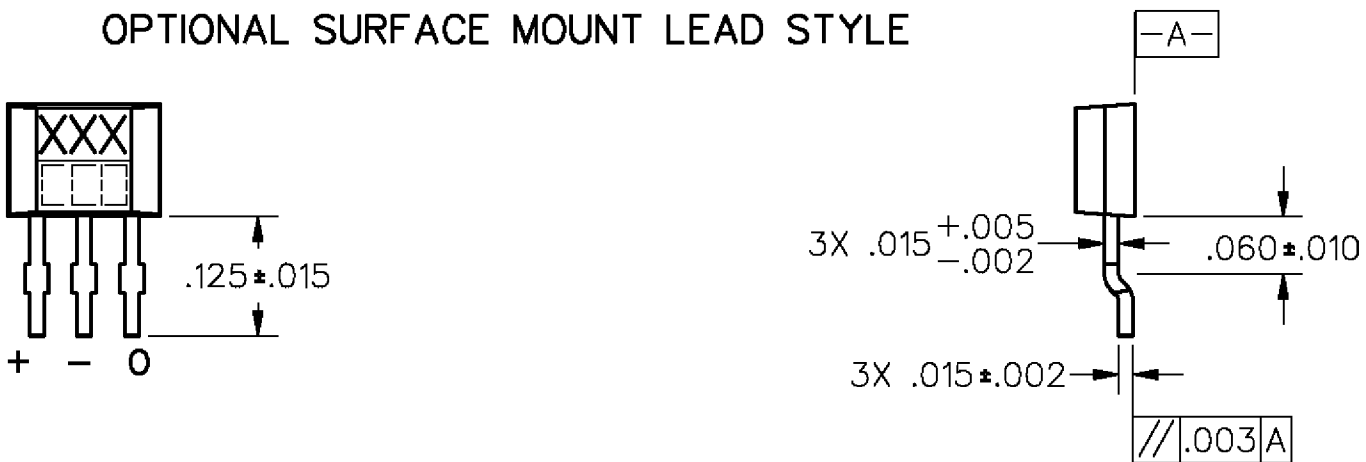
NOTES

- 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 PEAK FOR 10 S MAX OR 260°C PEAK FOR 5 S MAX
- 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 MAXIMUM
- 14 TAPE AND AMMOPACK PER EIA-468
- 15 POCKET TAPE PER EIA-481

CATALOG LISTING	TAPE STYLE	DIM "L" ±.015	DIM "W" ±.015 / -.004	COMMENTS
SS496A	NONE	.590	.050	BULK-1000/BAG
SS496A-T2	T2	.590	.100	5000/BOX
SS496A-T3	T3	.590	.050	5000/BOX
SS496A-S	NONE	.125	.050	BULK-1000/BAG
SS496A-SP	P	.125	.050	1000/PACKET TAPE AND REEL
SS496A1	NONE	.590	.050	BULK-1000/BAG
SS496A1-T2	T2	.590	.100	5000/BOX
SS496A1-T3	T3	.590	.050	5000/BOX
SS496A1-S	NONE	.125	.050	BULK-1000/BAG
SS496A1-SP	P	.125	.050	1000/PACKET TAPE AND REEL
SS496B	NONE	.590	.050	BULK-1000/BAG
SS496B-F	NONE	.590	.100	BULK-1000/BAG
SS496B-T2	T2	.590	.100	5000/BOX
SS496B-T3	T3	.590	.050	5000/BOX
SS496B-S	NONE	.125	.050	BULK-1000/BAG
SS496B-SP	P	.125	.050	1000/PACKET TAPE AND REEL



OPTIONAL SURFACE MOUNT LEAD STYLE



MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

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FED. MFG. CODE 91829	SS496 SERIES CHART 1
MICRO SWITCH a Honeywell Division	MINIATURE RATIOMETRIC LINEAR HALL EFFECT SENSOR

THIRD ANGLE PROJECTION			
SCALE 5 : 1			
DO NOT SCALE PRINT			
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE			
ONE PLACE	(.0)	±.030	
TWO PLACES	(.00)	±.015	
THREE PLACES	(.000)	±.005	
ANGLES		± 2°	
WEIGHT			

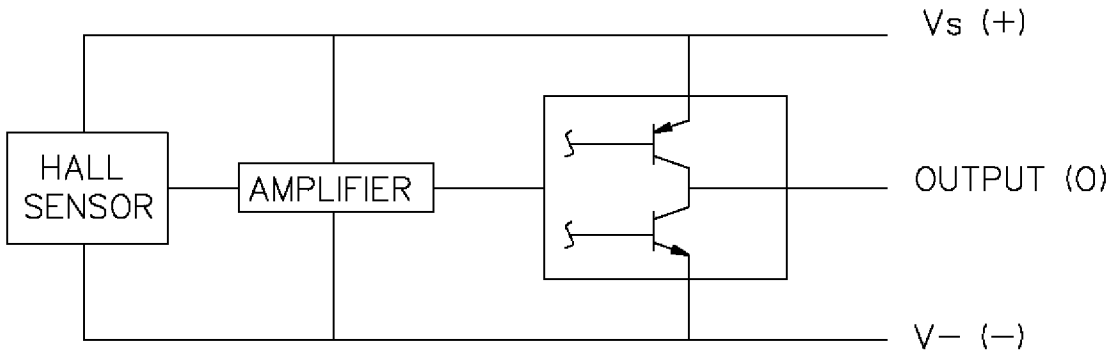
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CHARACTERISTICS ARE AT Vs=5.00 WITH 4.7K OUTPUT TO MINUS WITH TA= -40°C TO +125°C UNLESS OTHERWISE SPECIFIED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	2.4	2.5	2.6	mV/GAUSS
NULL	TA = 25°C	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	TA = 25°C		7		mA
OUTPUT CURRENT SOURCE	Vs > 4.5	1mA	1.5mA		
SINK	Vs > 4.5	.6mA	1.5mA		
SINK	Vs > 5.0	1mA	1.5mA		
RESPONSE TIME			3μS		
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.4	.2		VOLTS
VOM +	+B APPLIED	Vs - .4	Vs - .2		VOLTS
B LIMITS FOR LINEAR OPERATION					
-B MAX		-750	-840		GAUSS
+B MAX		+750	+840		GAUSS
Vnull DRIFT	B = 0, TA = 25°C TO 125°C	-.048		+.048	% / °C
Vnull DRIFT	B = 0, TA = +125°C TO +150°C	-.064		+.064	% / °C
SENSITIVITY DRIFT	TA=+25°C TO +125°C	-.01		+.05	% / °C
SENSITIVITY DRIFT	TA=-40°C TO +25°C	0		+.06	% / °C
LINEARITY	B = -600 TO +600	0	-1.0	-1.5	% 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

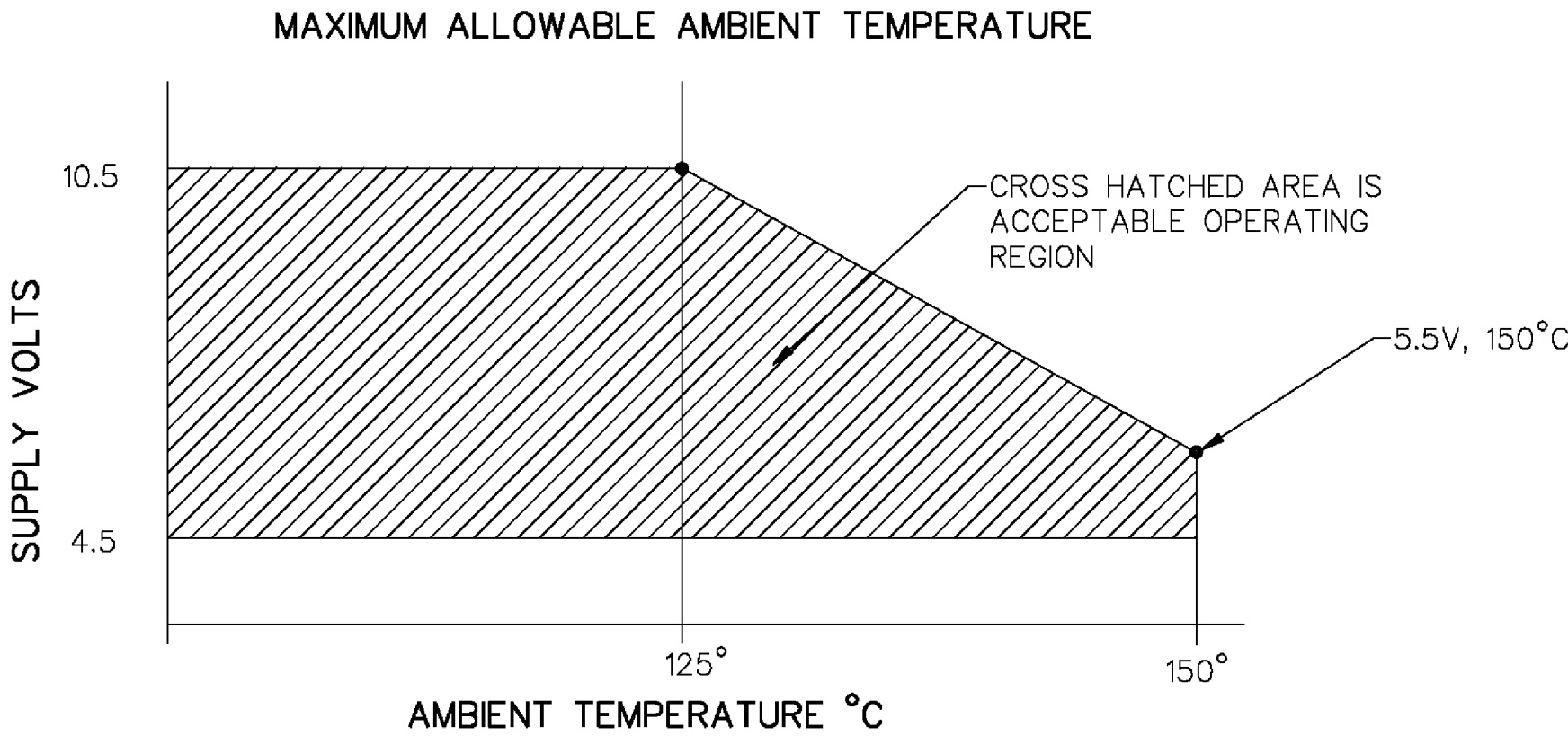
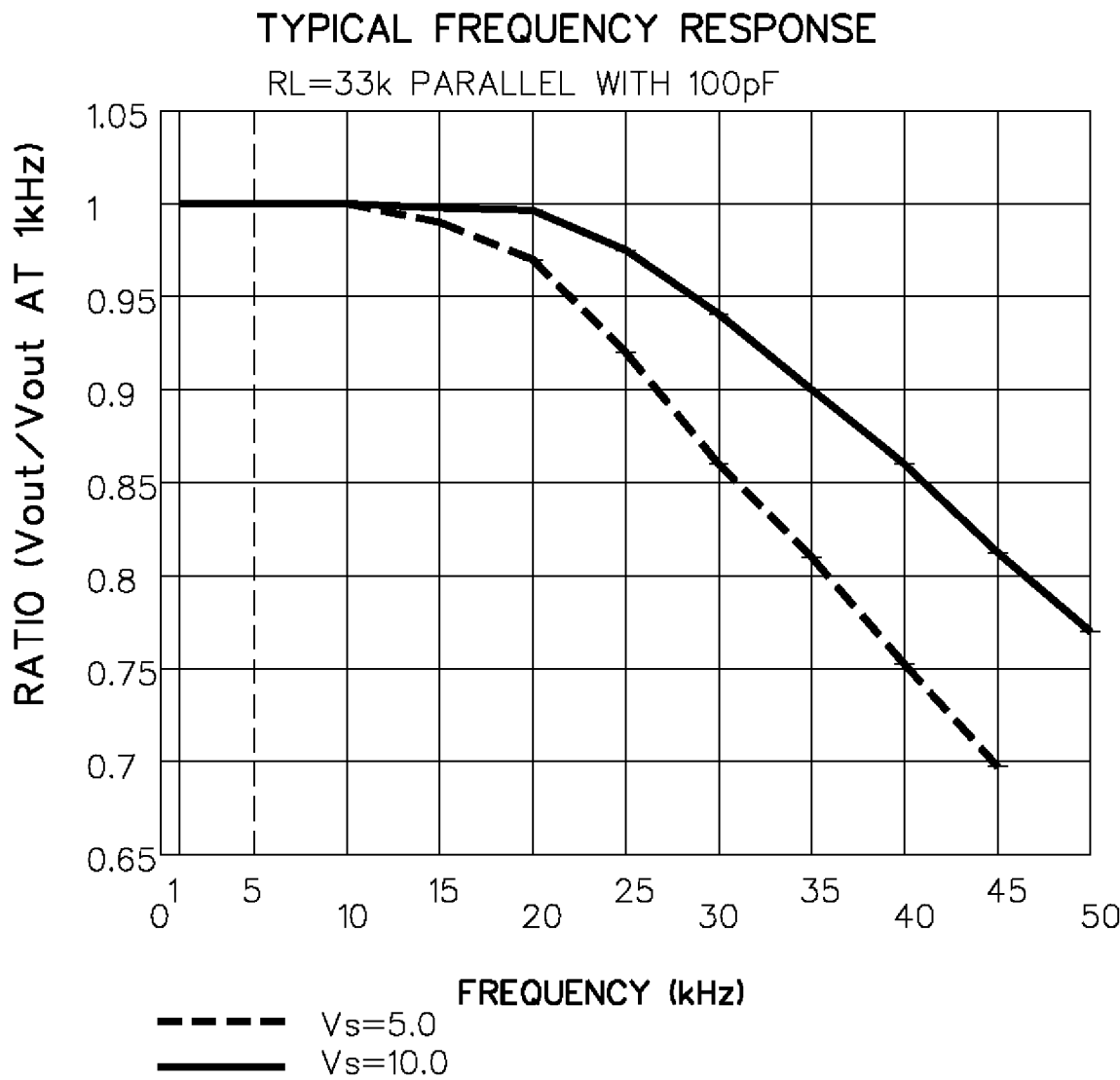
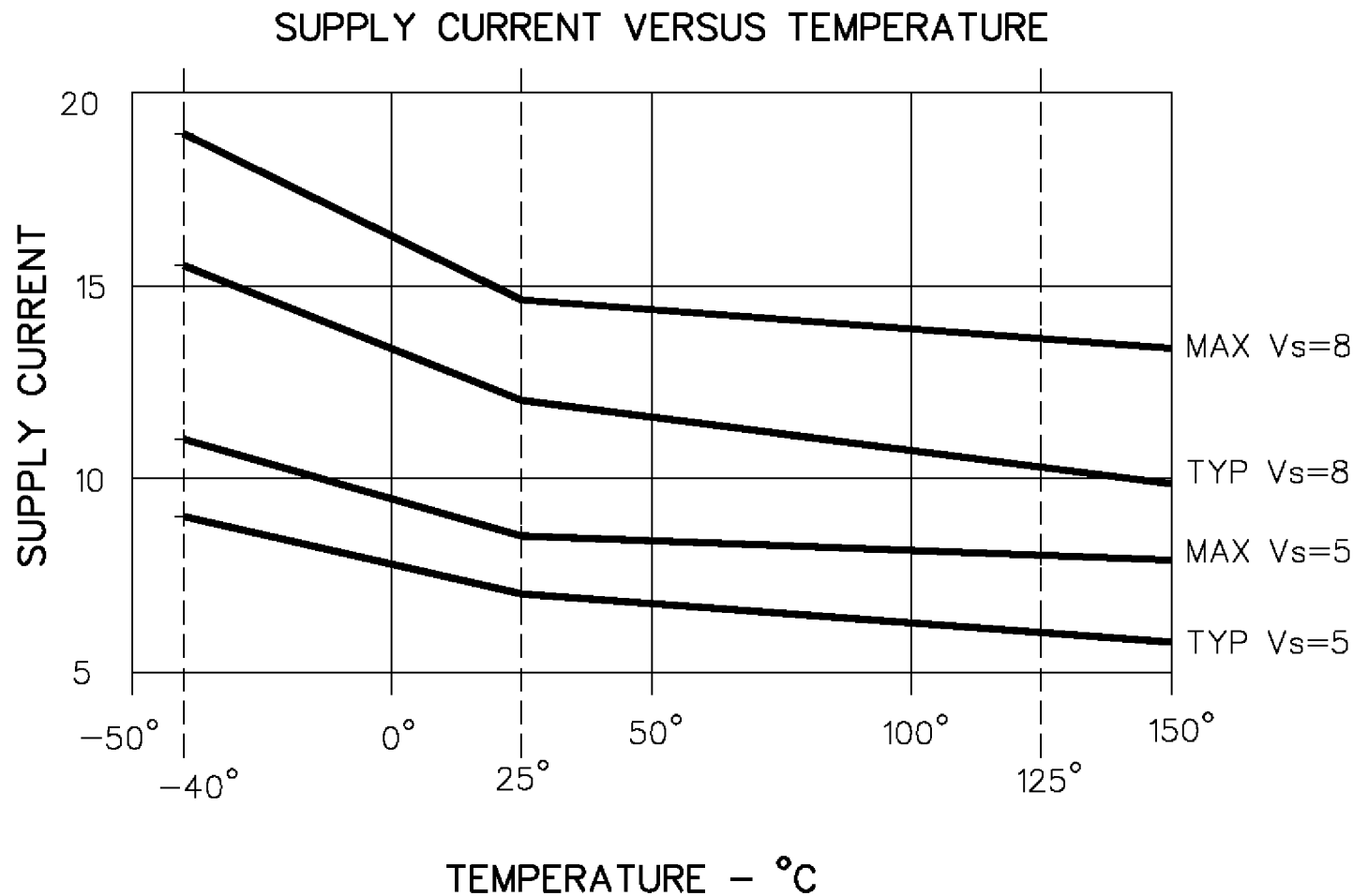
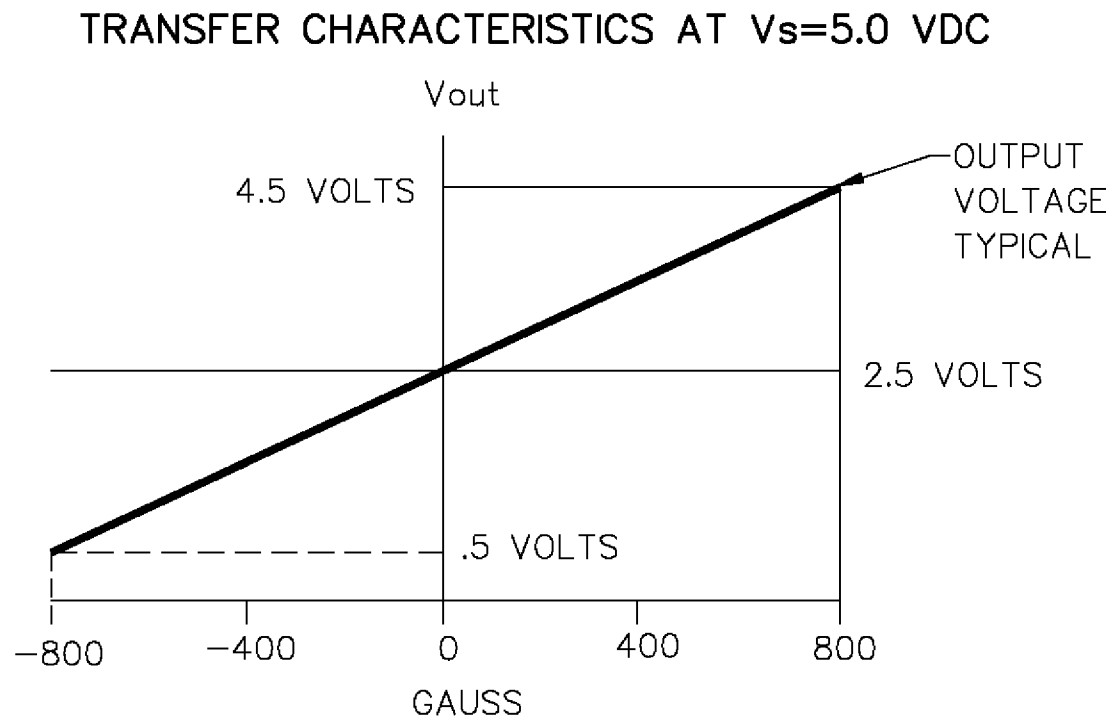
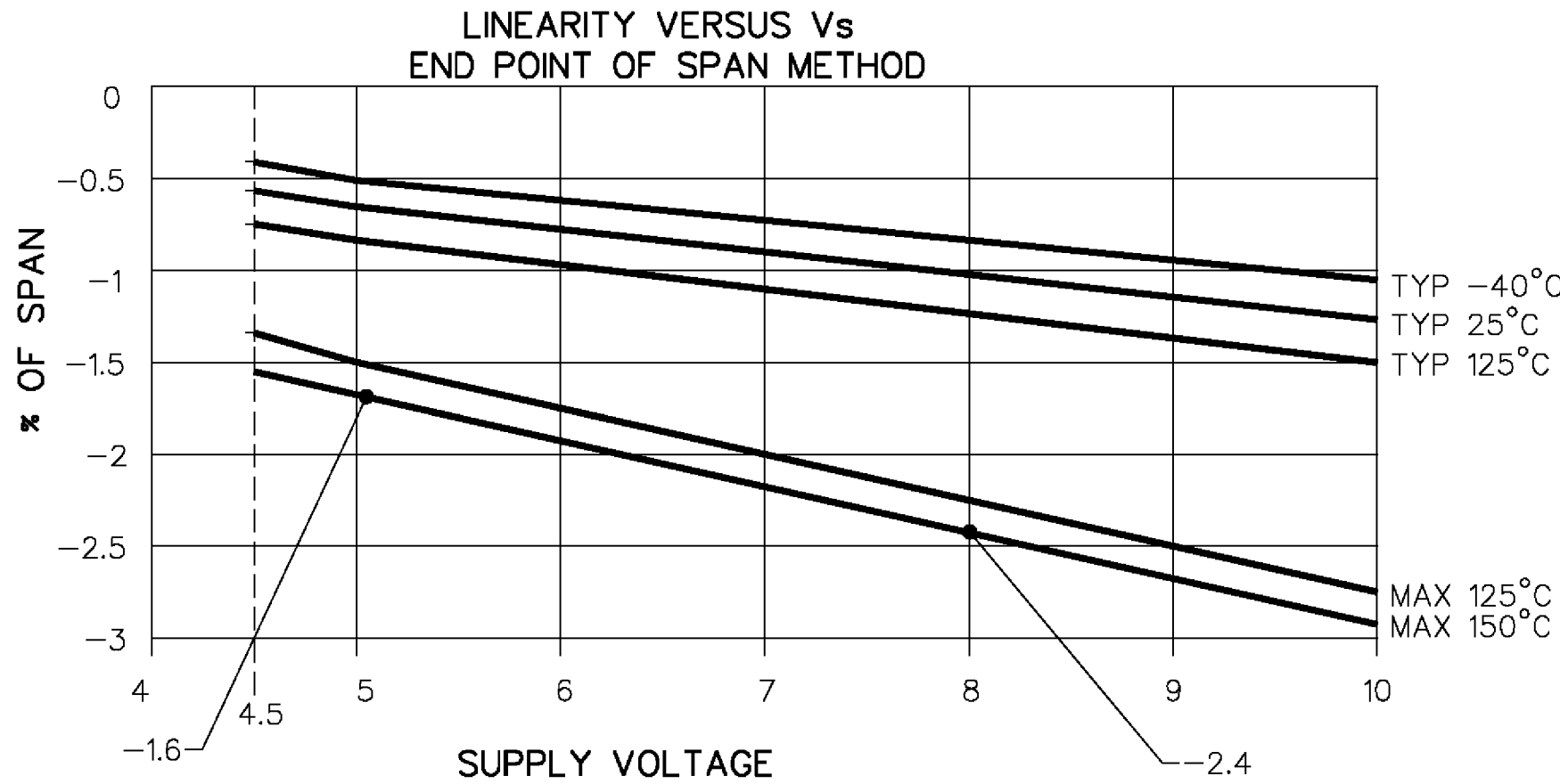
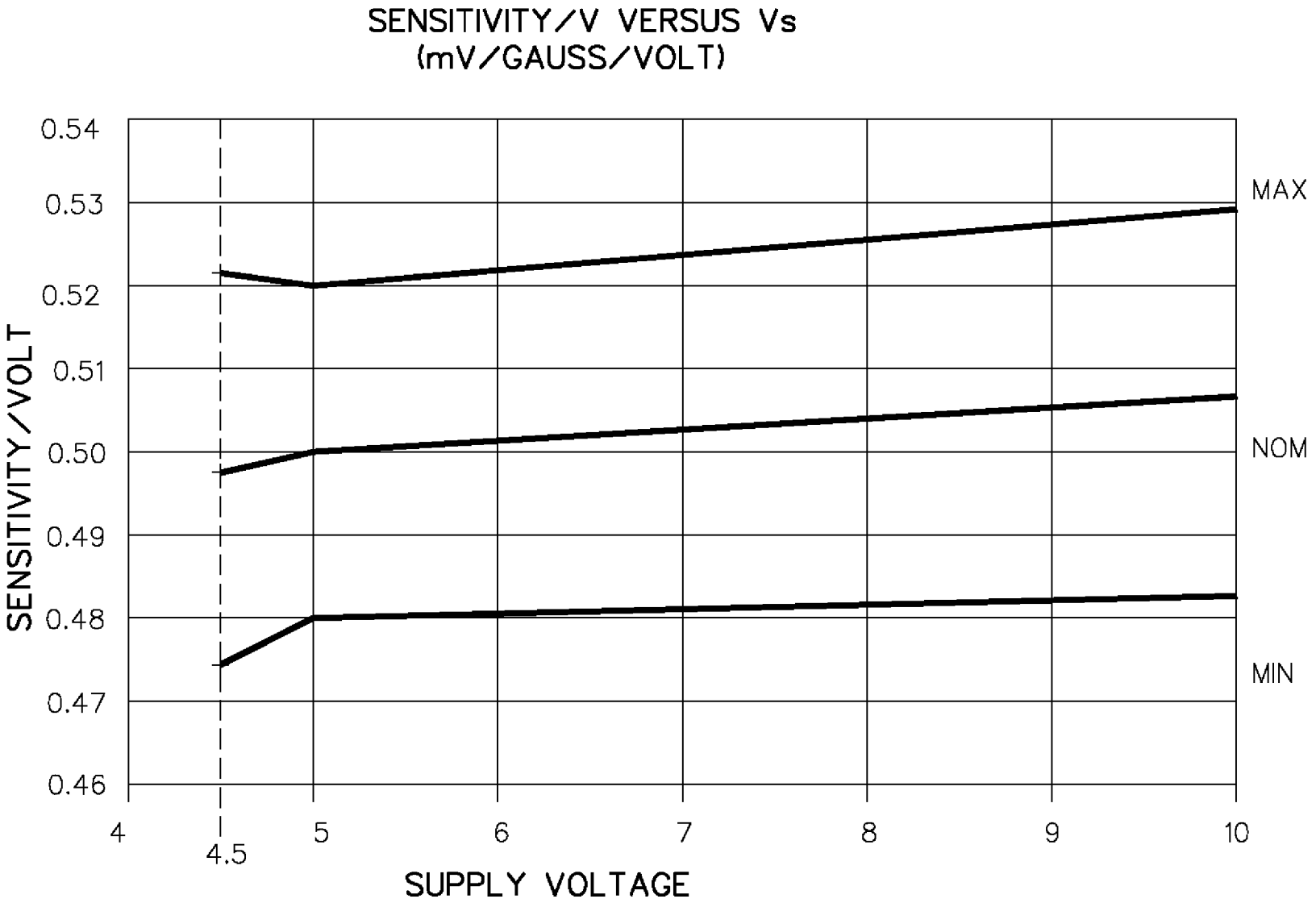
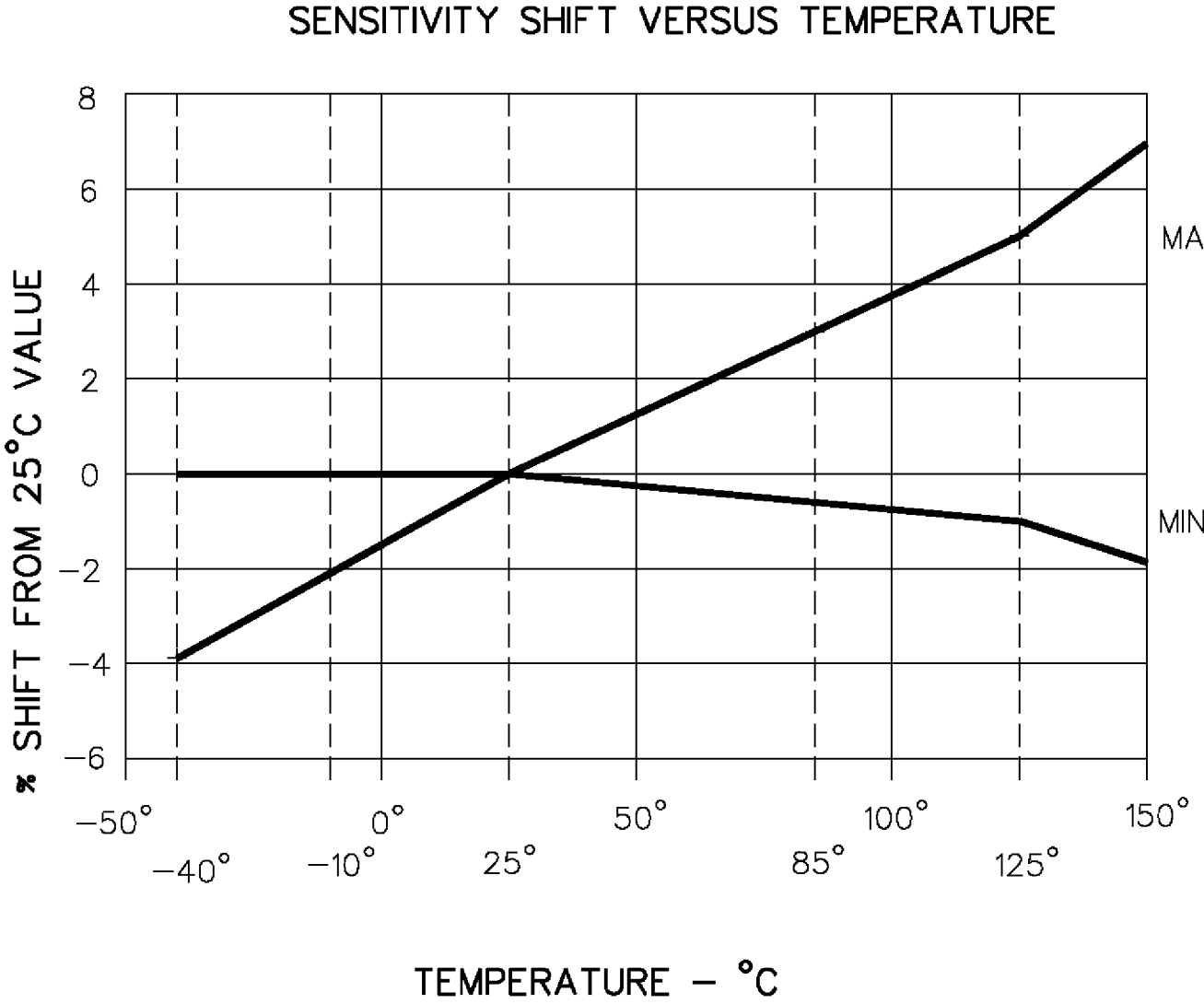
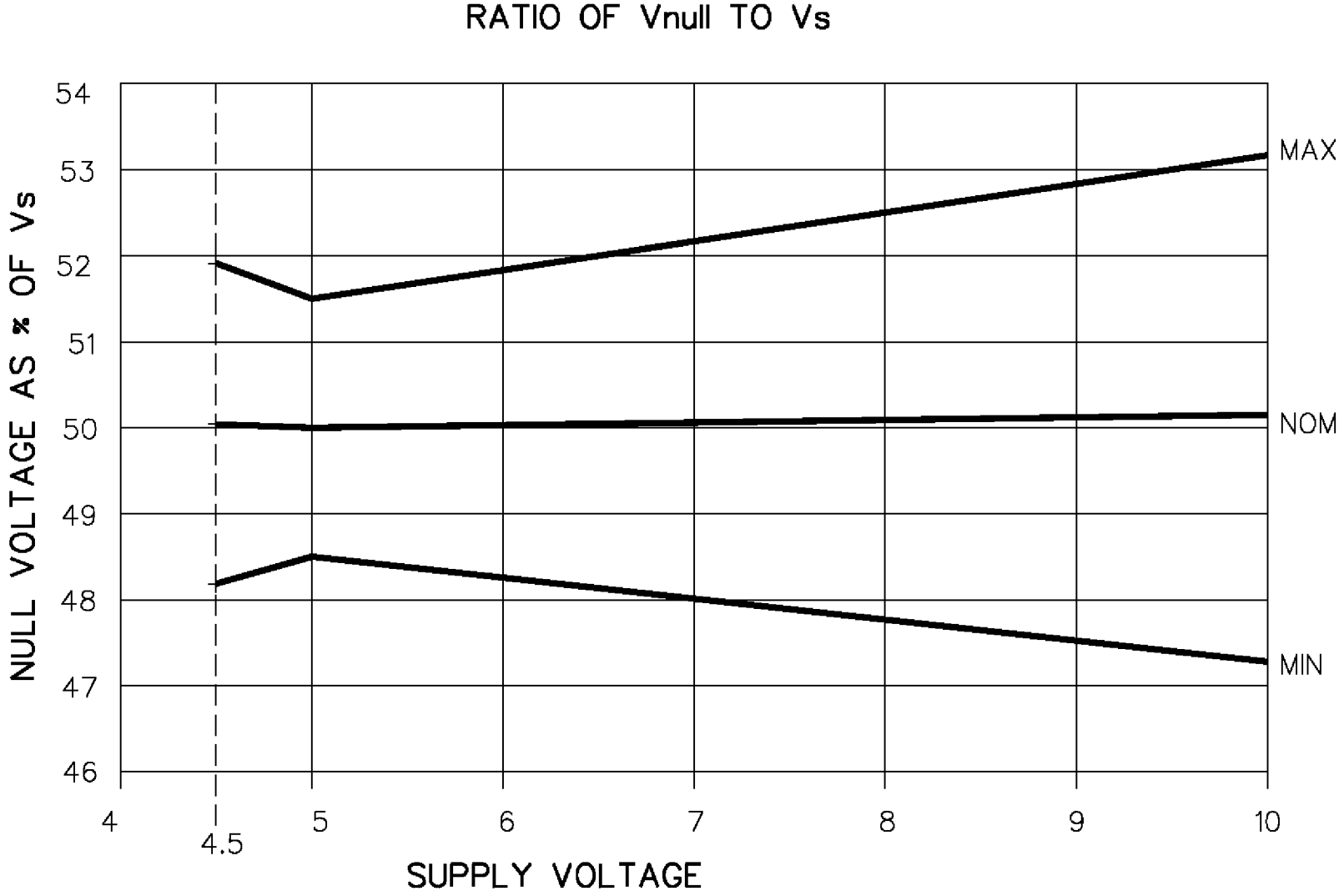
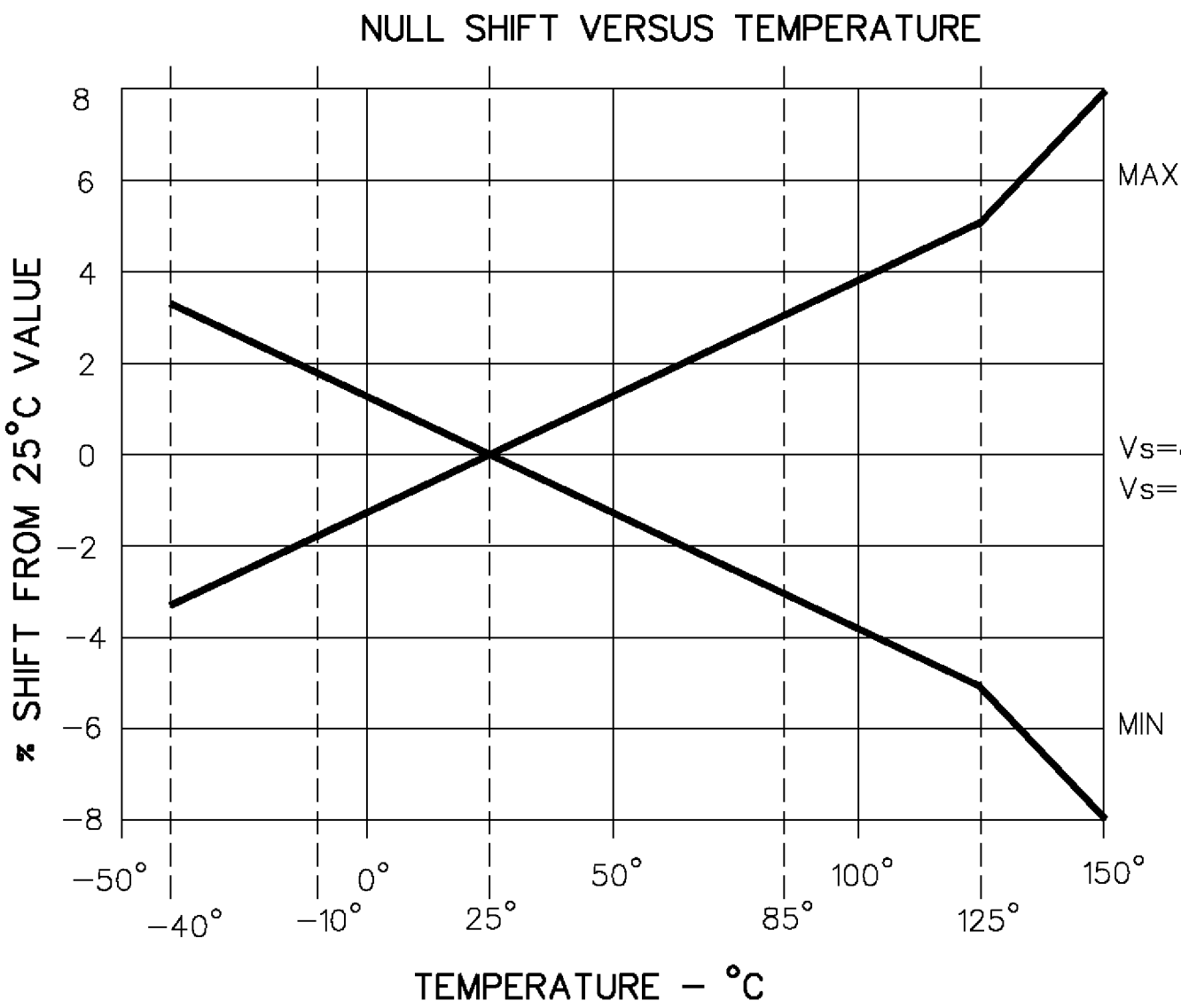
SS496A

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



ABSOLUTE MAXIMUM CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	Vcc		-0.5	11	V
OUTPUT VOLTAGE	Vout		-0.5	11	V
OUTPUT CURRENT	Iout	SOURCE OR SINK		10	mA
TEMPERATURE	TA	OPERATING	-55	150	°C
	TS	STORAGE (Vcc=0)	-55	165	°C



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FED. MFG. CODE 91828

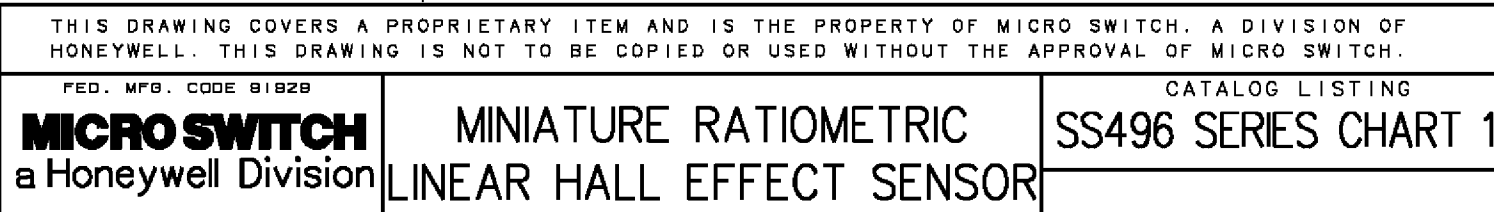
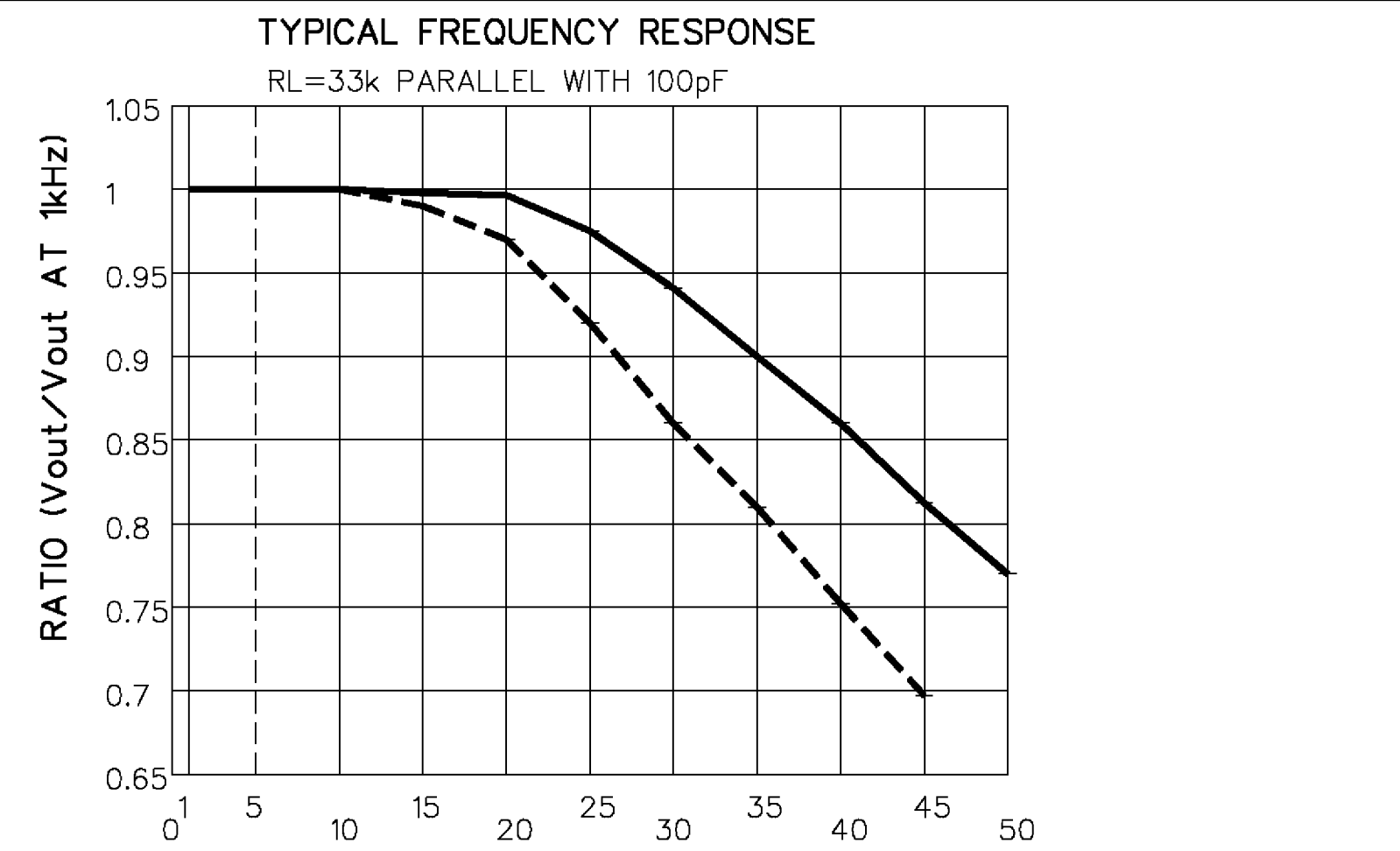
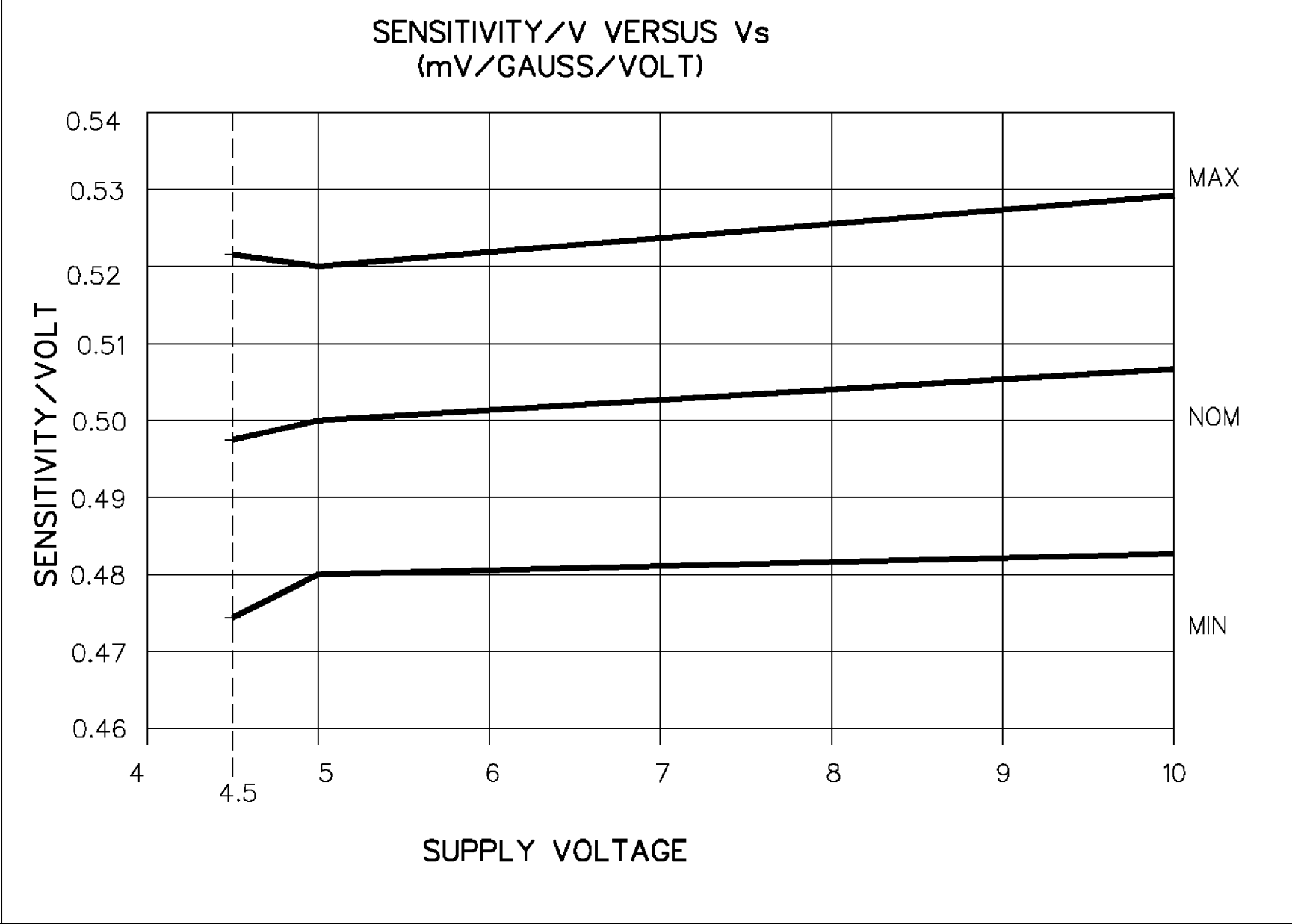
MICRO SWITCH
a Honeywell Division

MINIATURE RATIOMETRIC
LINEAR HALL EFFECT SENSOR

CATALOG LISTING
SS496 SERIES CHART 1

THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE (.0)	±.030
TWO PLACES (.00)	±.015
THREE PLACES (.000)	±.005
ANGLES	± 2°
WEIGHT	

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



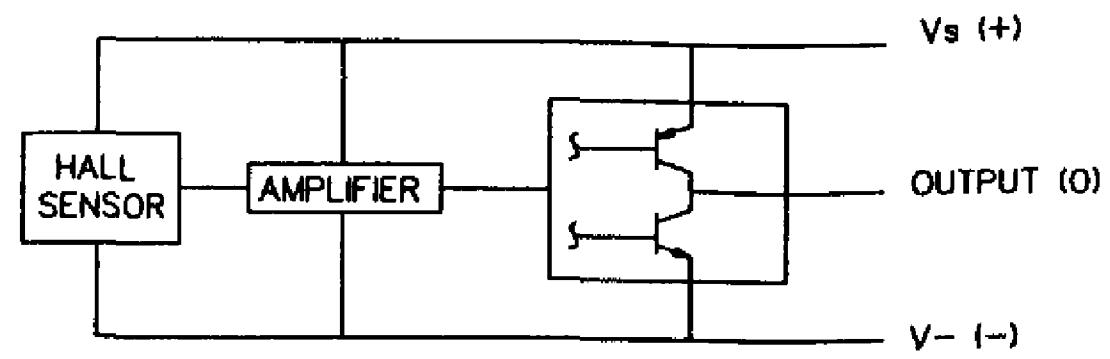
THIRD ANGLE PROJECTION		
		
SCALE	NONE	
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		± 2°
WEIGHT		

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			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	$B = 0, T_A = 25^\circ\text{ TO } 125^\circ\text{C}$	-.064		+.064	%/°C
Vnull DRIFT	$B = 0, T_A = +125^\circ\text{ TO } +150^\circ\text{C}$	-.064		+.064	%/°C
SENSITIVITY DRIFT	$T_A = +25^\circ\text{C TO } +150^\circ\text{C}$	-.02		+.08	%/°C
SENSITIVITY DRIFT	$T_A = -40^\circ\text{C TO } +25^\circ\text{C}$	-.02		+.08	%/°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	°C

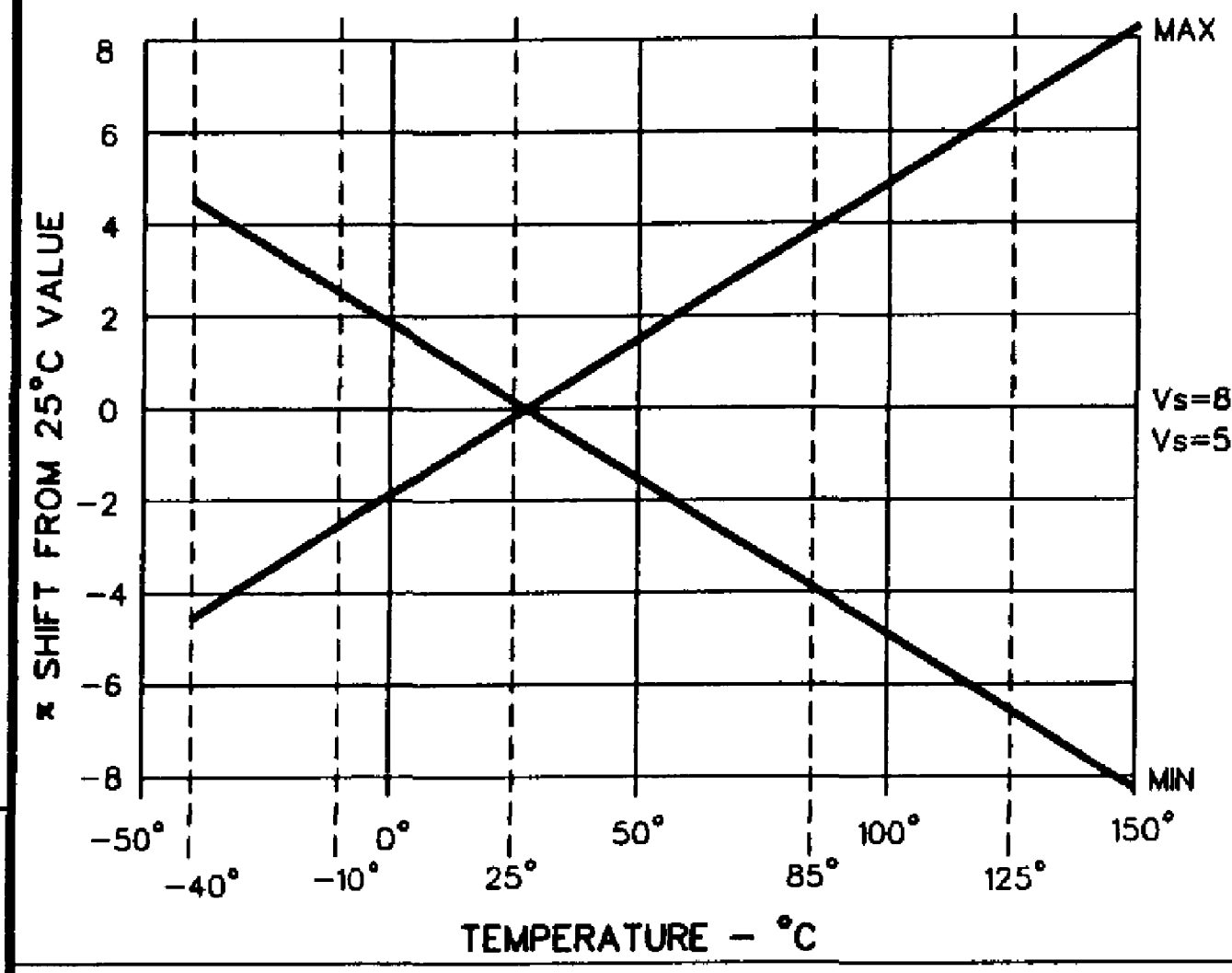
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



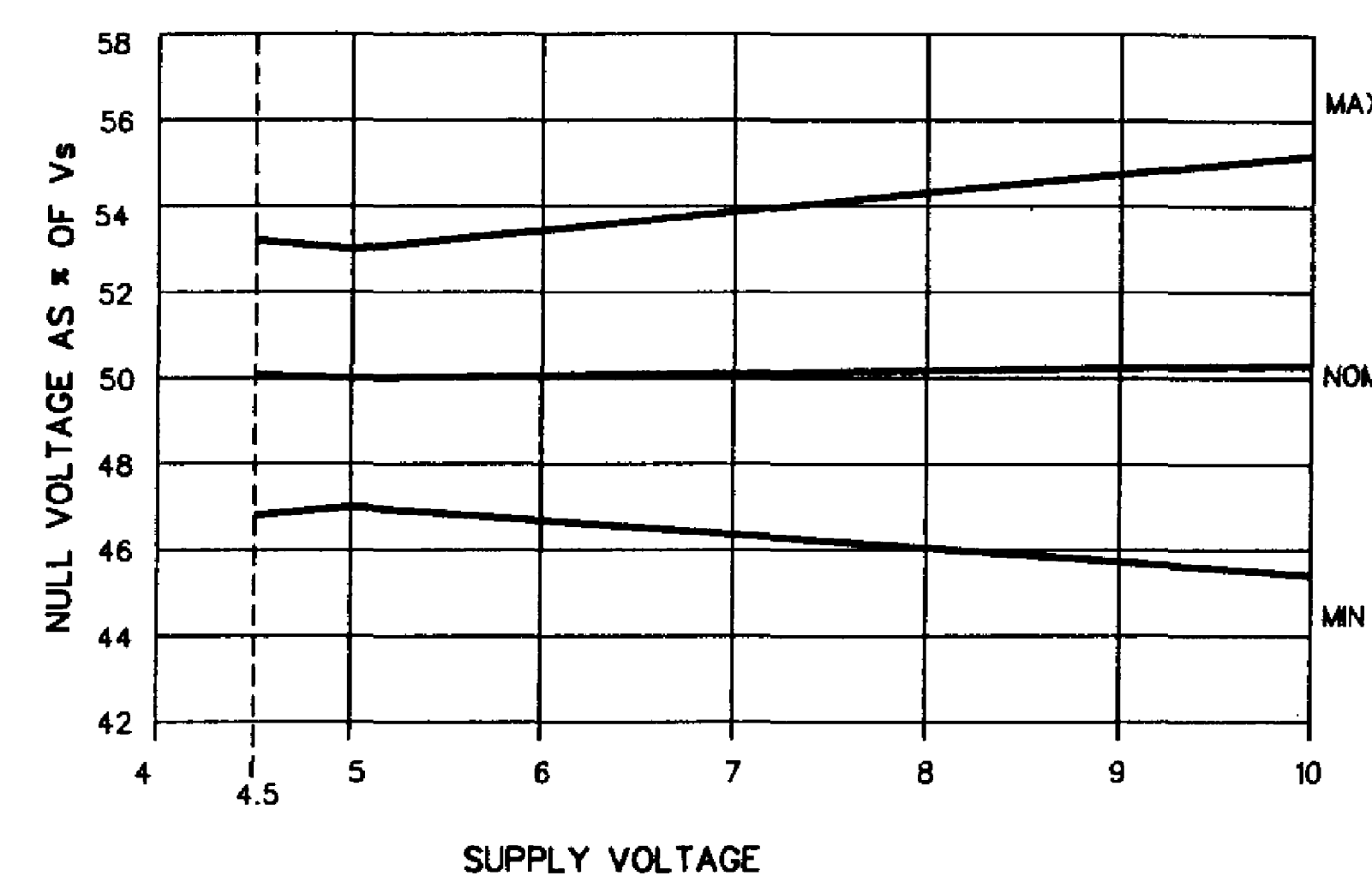
ABSOLUTE MAXIMUM CHARACTERISTICS

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

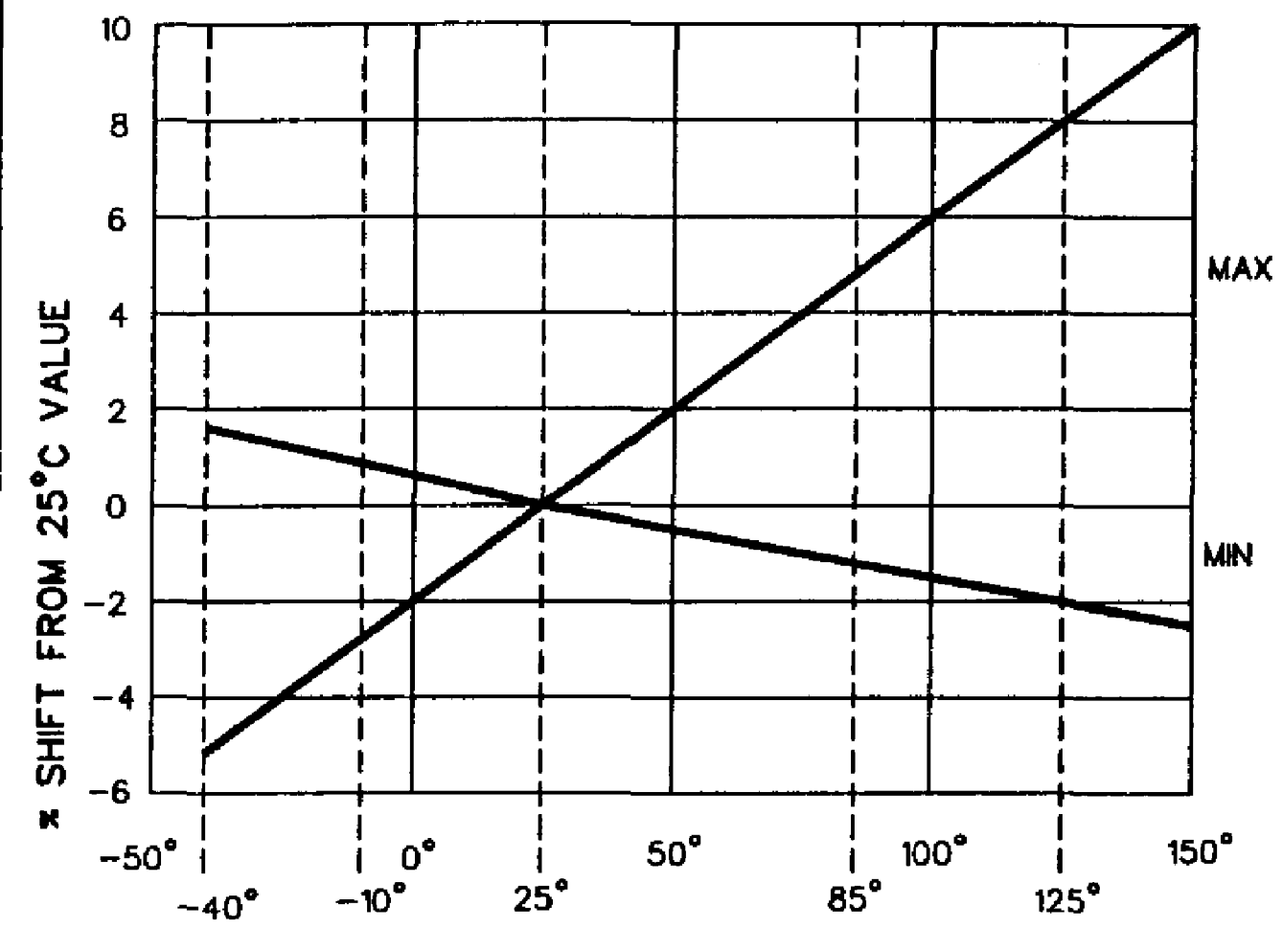
NULL SHIFT VERSUS TEMPERATURE



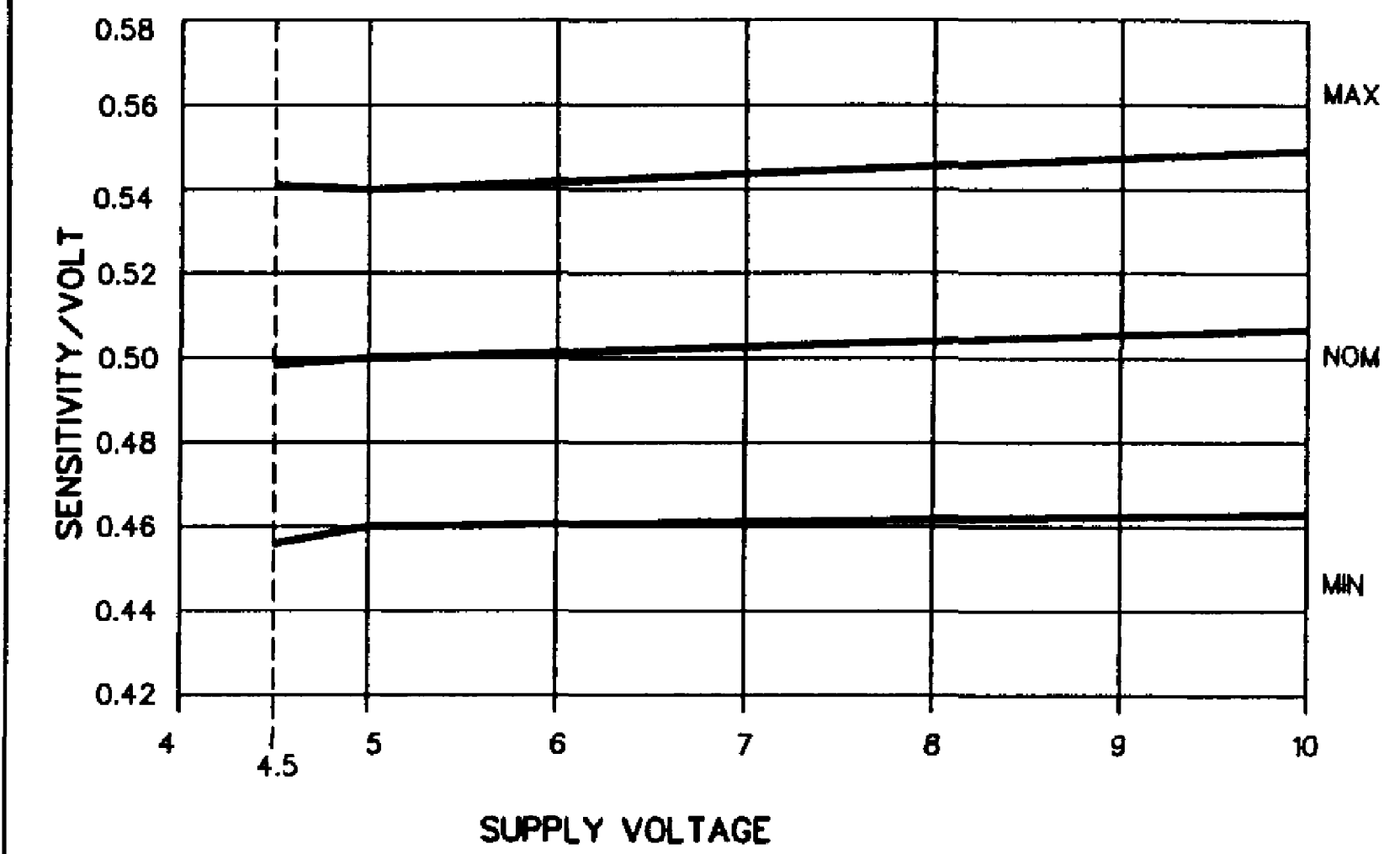
RATIO OF Vnull TO Vs



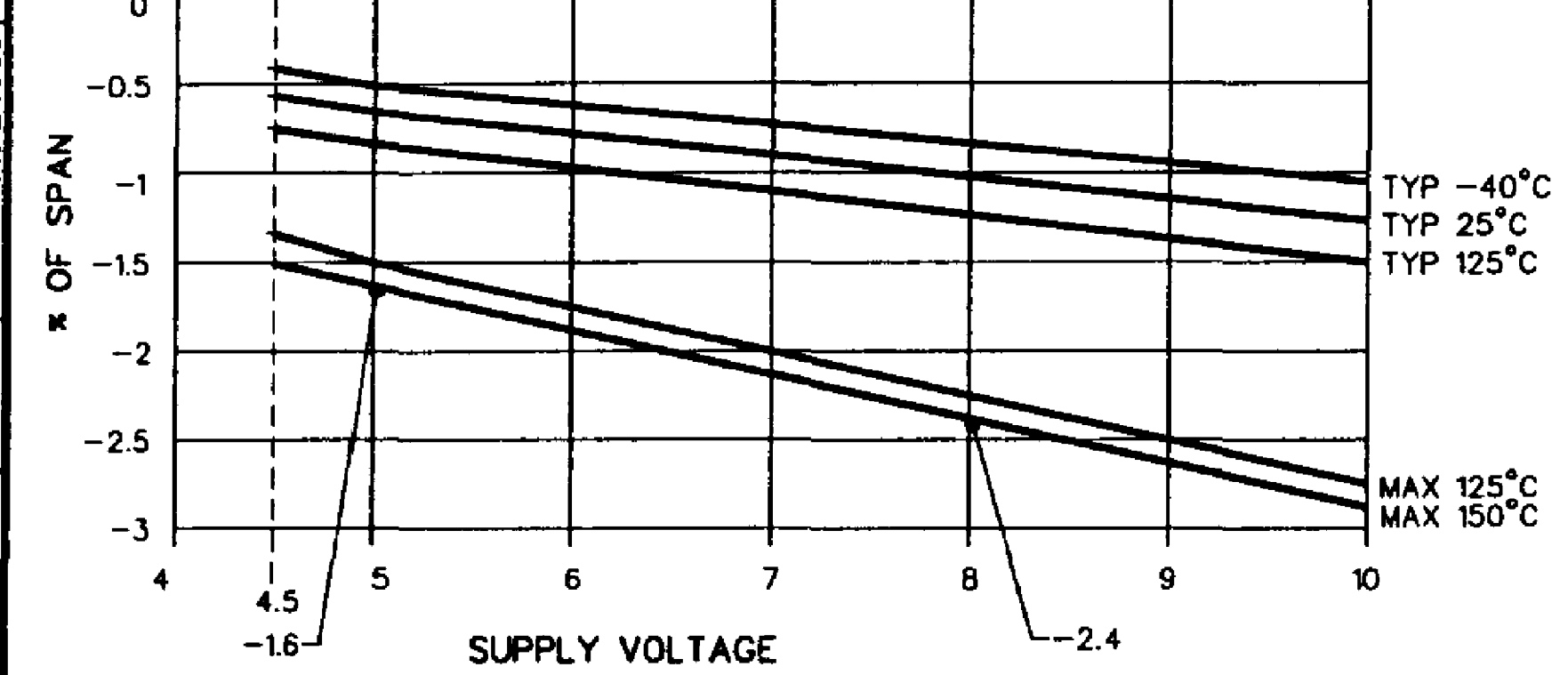
SENSITIVITY SHIFT VERSUS TEMPERATURE



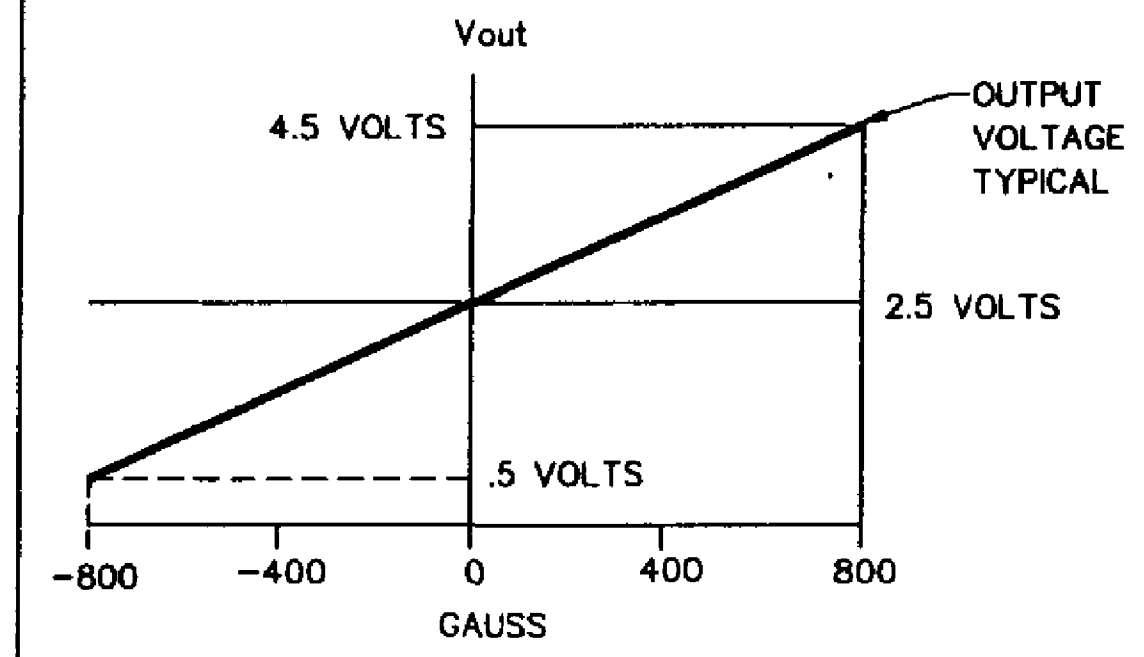
SENSITIVITY/V VERSUS Vs (mV/GAUSS/VOLTS)



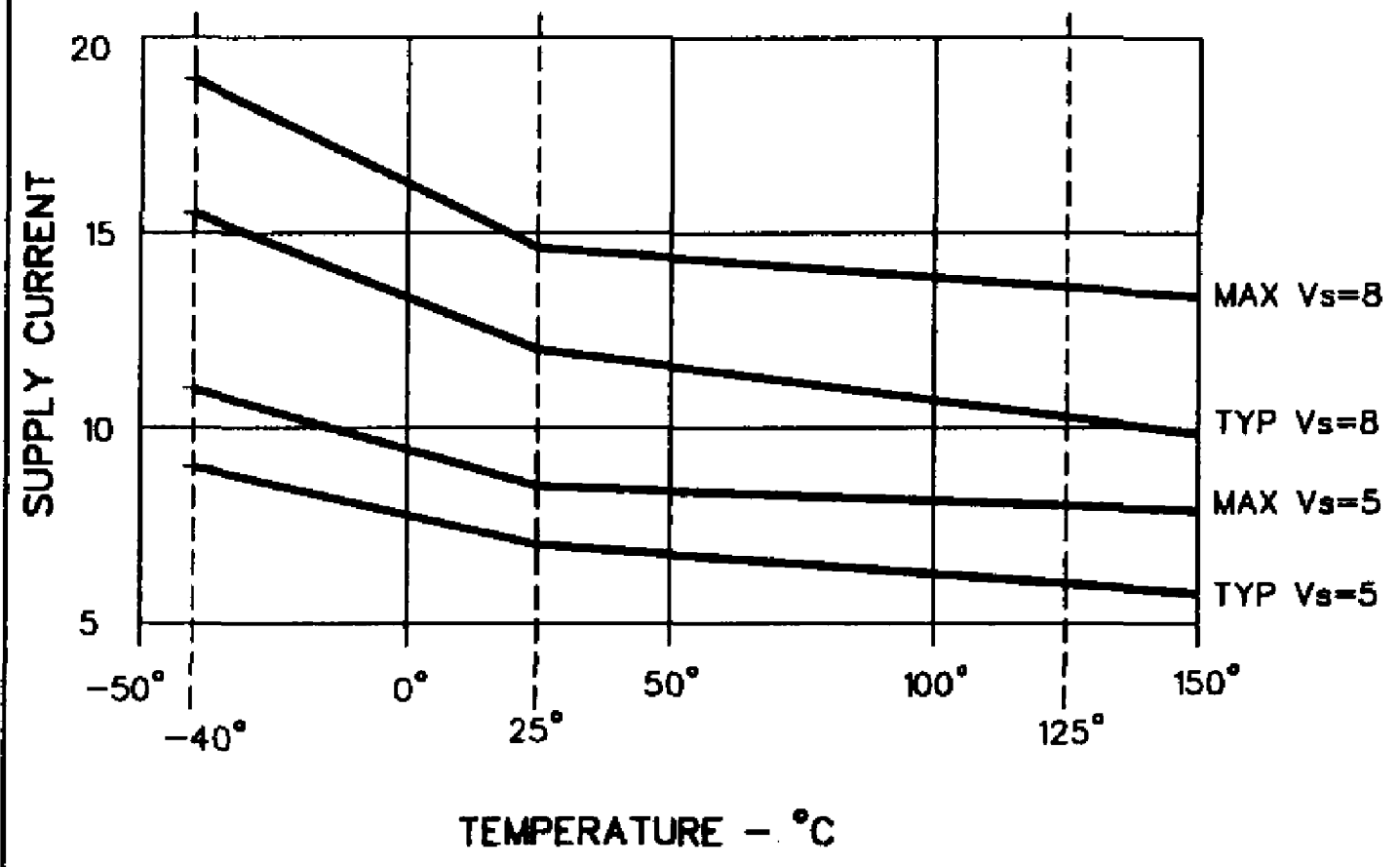
LINEARITY VERSUS Vs END POINT OF SPAN METHOD



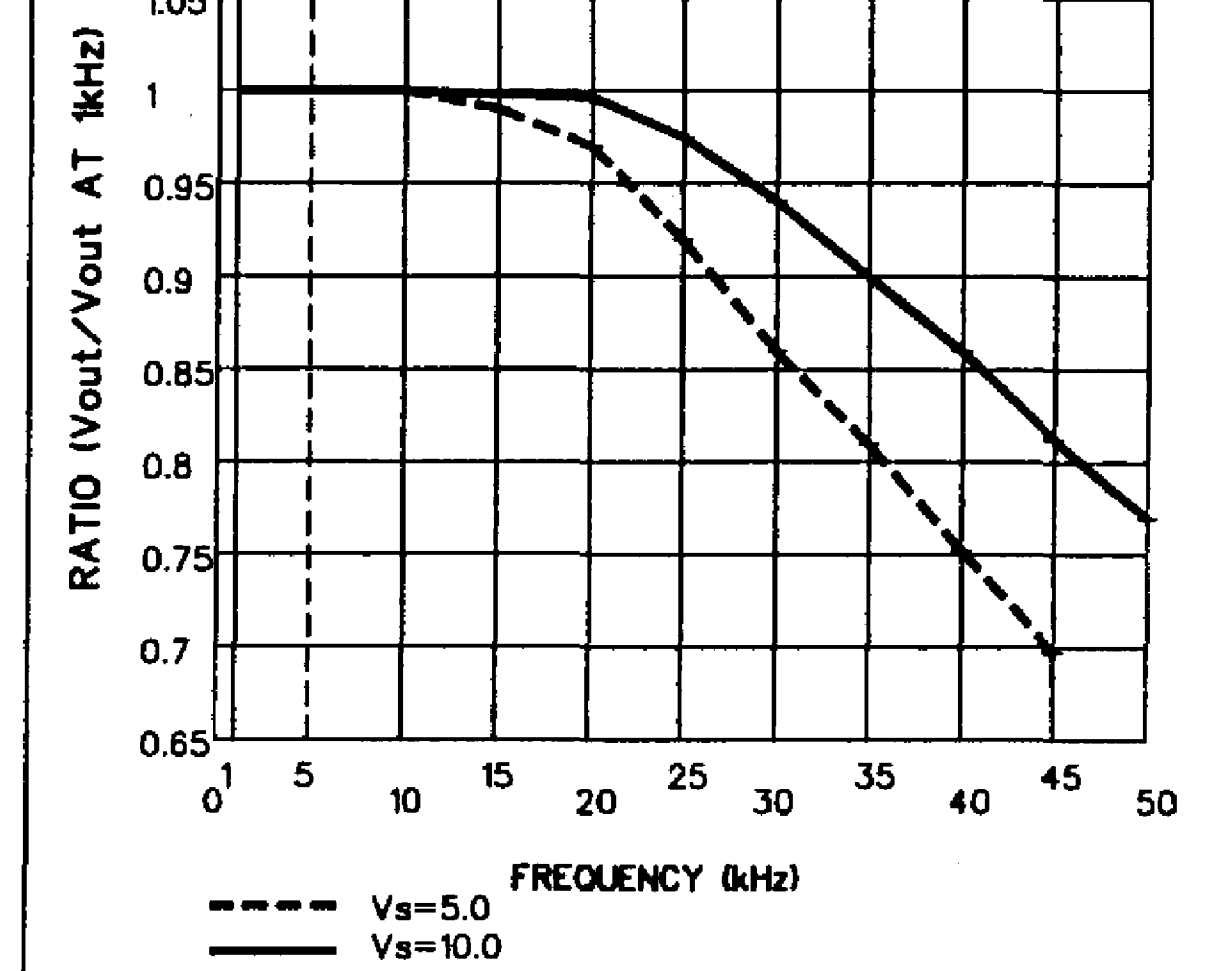
TRANSFER CHARACTERISTICS AT Vs=5.0 VDC



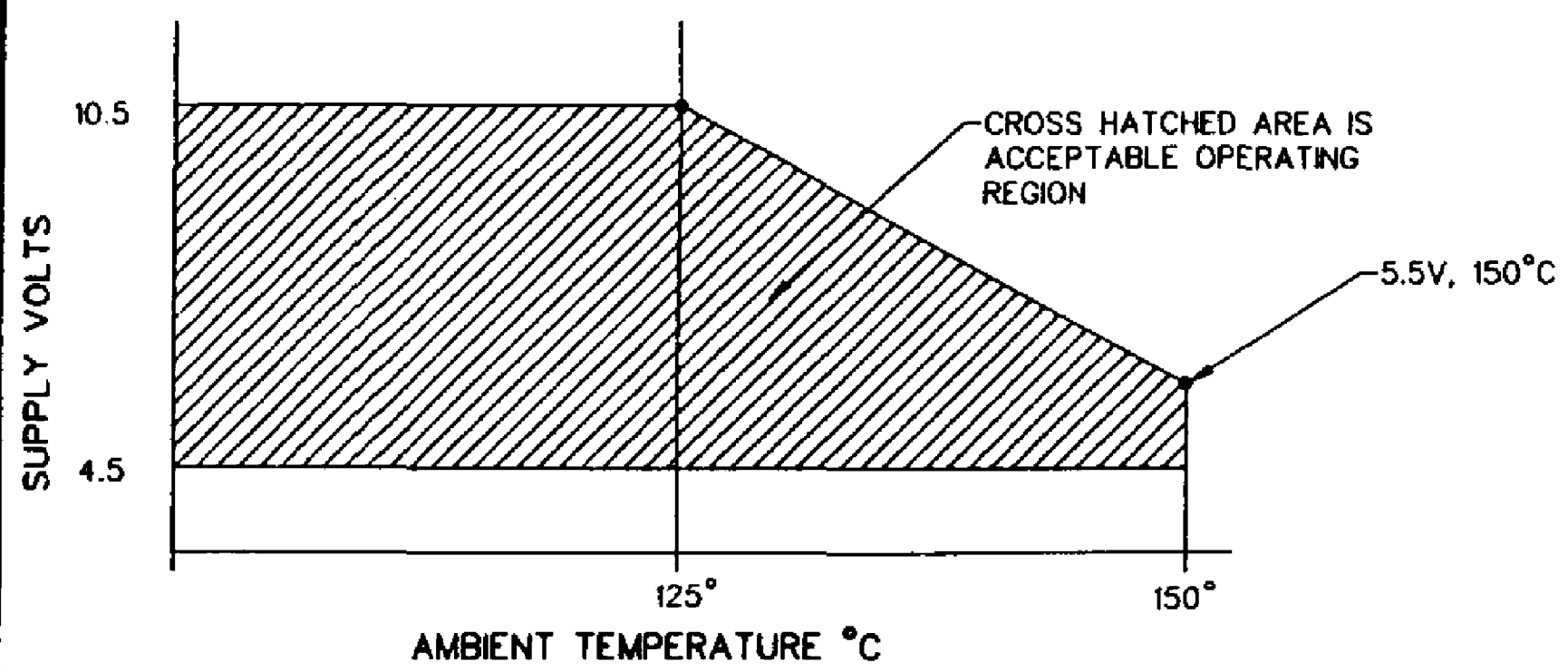
SUPPLY CURRENT VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE RL=33k PARALLEL WITH 100pF



MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



MASTER REDUCED ANSI Y14.5M-1982 APPLIES

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CATALOG LISTING
SS496 SERIES CHART 1

MINIATURE RATIOMETRIC
LINEAR HALL EFFECT SENSOR

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (01) ±.030

TWO PLACES (00) ±.015

THREE PLACES (000) ±.005

ANGLES ±2°

WEIGHT