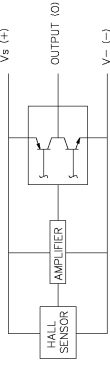


CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A = -40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496A

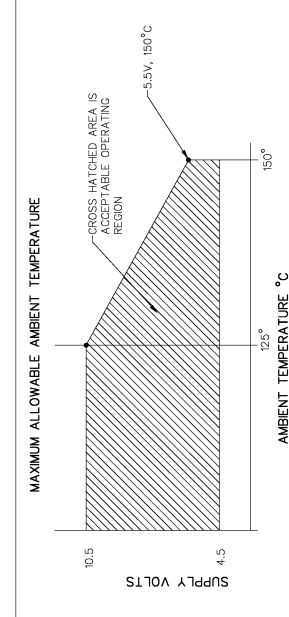
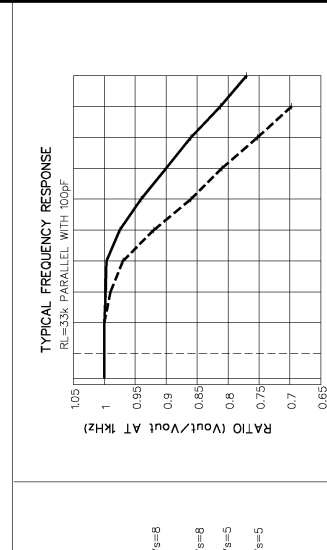
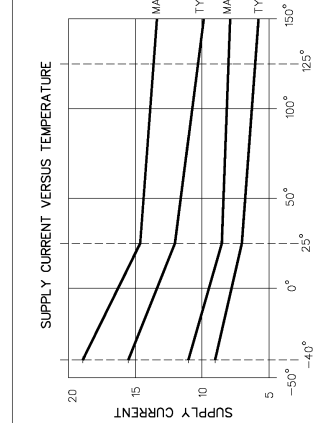
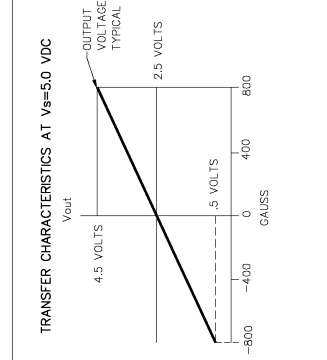
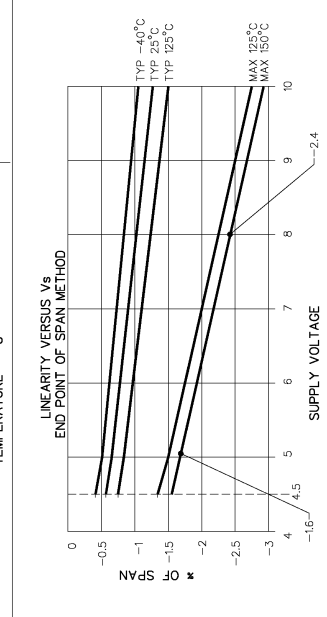
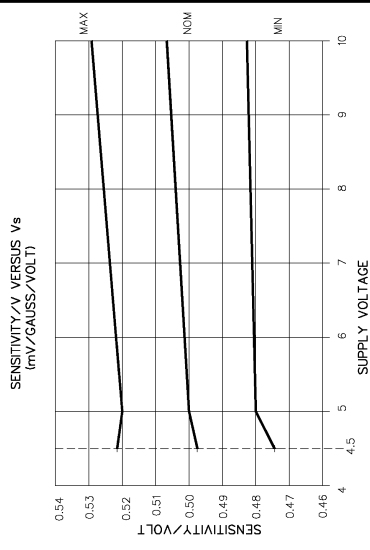
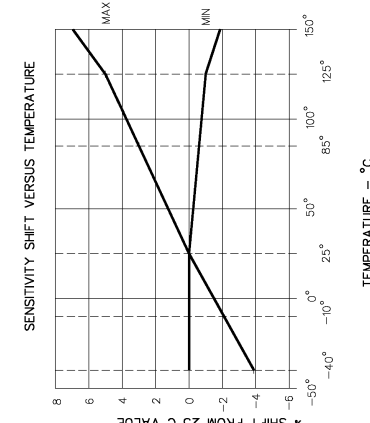
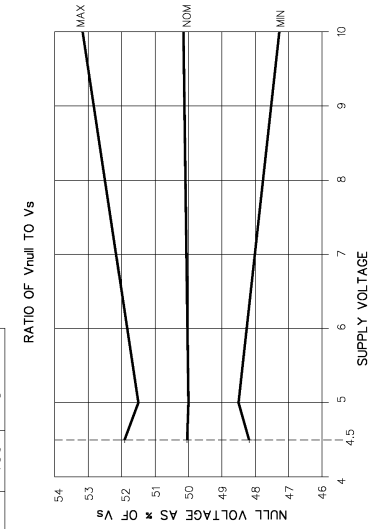
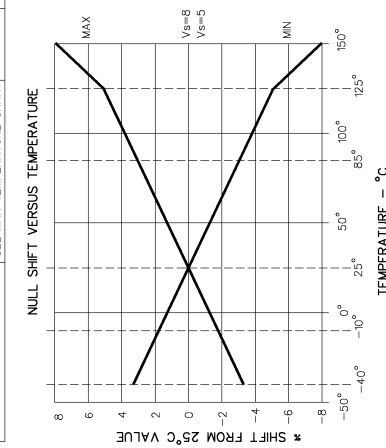
BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



NULL	2.425	2.30	2.575	GAUSS
NULL	2.425	2.30	2.575	VOLTS
SUPPLY CURRENT	TA = 25°C	1mA	1.5mA	mA
OUTPUT CURRENT	VS > 4.5	6mA	1.5mA	
SINK	VS > 4.5	1mA	3μS	
SINK	VS > 5.0			
RESPONSE TIME				
OUTPUT VOLTAGE	-B APPLIED	VS - 4	2	VOLTS
SWING				VOLTS
VOM 1				GAUSS
B LIMITS FOR LINEAR	-B MAX	-750	-840	GAUSS
OPERATION	+B MAX	+750	+840	GAUSS
Vm1 I1 DRIFT	B = 0, TA = 25°C TO 95°C	-0.018		π / °C
Vm2 I2 DRIFT	B = 0, TA = 125°C TO +150°C	-0.064		π / °C
SENSITIVITY DRIFT	TA = 25°C TO 125°C	-0.01		π / °C
SENSITIVITY DRIFT	TA = 125°C TO +25°C	0		π / °C
SPAN	-46°C TO +125°C	4.5	-1.0	VOLTS
OPERATING TEMP	SEE MAX. TEMPERATURE CHART	5.0	10.5	VOLTS
SUPPLY VOLTAGE				°C

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	155	°C
	T_s	STORAGE	$V_{cc}=0$	165	°C



SS496B

CHARACTERISTICS ARE AT $V_B=5.00$ WITH 4.7K 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	TA = 25°C	2,300	2,500	2,700	mV/GAUSS
NULL	TA = 25°C	2,350	2,50	2,650	VOLTS
SUPPLY CURRENT	TA = 25°C		7	8	mA
OUTPUT CURRENT	V _S > 4.5	1mA			
SINK	V _S > 4.5	1.5mA			
SINK	V _S > 5.0	1mA			
RESPONSE TIME					
OUTPUT VOLTAGE SWING					
V _{OM} +	-B APPLIED	.4			VOLTS
V _{OM} -	-B APPLIED	V _S - .4	V _S - .2		VOLTS
B LIMITS FOR LINEAR OPERATION	-B MAX	-750	-840		GAUSS
	-B MAX	-750	-840		GAUSS
V _{WELL} DRIFT					
V _{WELL} DRIFT	B = 0. TA = 25° TO 125°C	-.084			°/°C
SENSITIVITY DRIFT	B = 0. TA = +25° TO +50°C	-.084			°/°C
SENSITIVITY DRIFT	TA = +25°C TO +125°C	-.02			°/°C
SENSITIVITY DRIFT	TA = -25°C TO -125°C	0			°/°C
SENSITIVITY	B = -600 TO +600	-1.0			% OF SPAN
SUPPLY VOLTAGE	-40°C TO +125°C	5.0	5.0	10.5	V _C
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40			°C

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
	Ta	STORAGE (M300=0)	-55	165	°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT

