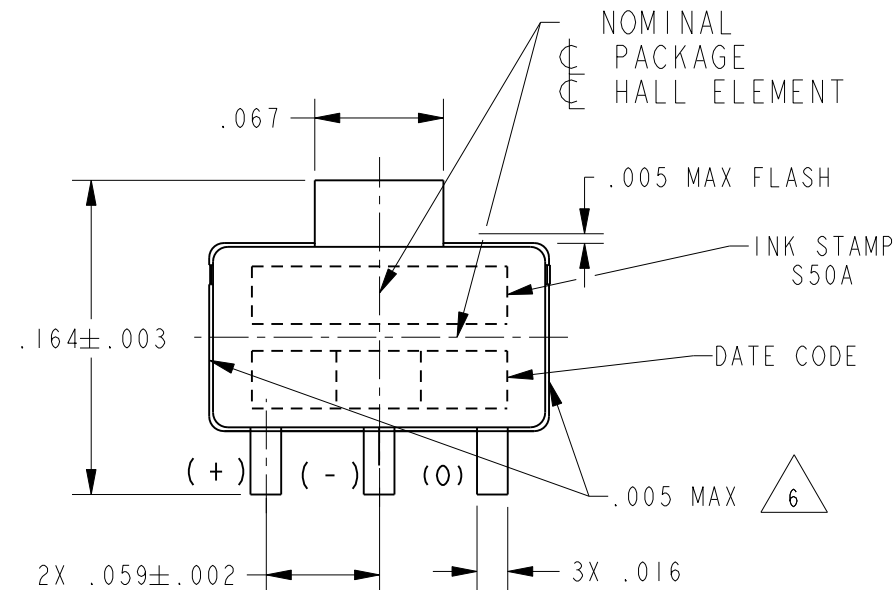


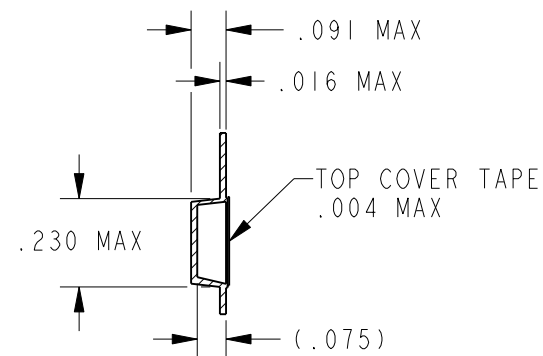
Technical drawing of a Hall effect sensing surface. The drawing shows a cross-section of a component with various dimensions and tolerances. Key dimensions include:

- Overall width: $.054$
- Top width: $.038$ NOMINAL TO HALL EFFECT SENSING SURFACE
- Top thickness: $.006$
- Bottom thickness: $.002^{+.001}_{-.002}$
- Left side height: $.098 \pm .004$
- Right side height: $.094$
- Radius: $R.010$ MAX TYP
- Angle: 14° TYP

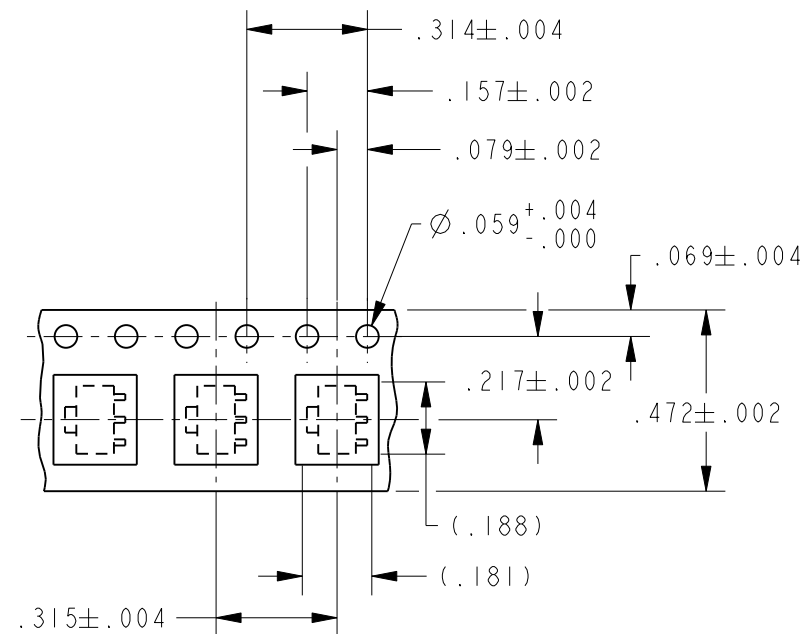


7

SHEET	1	OF	3
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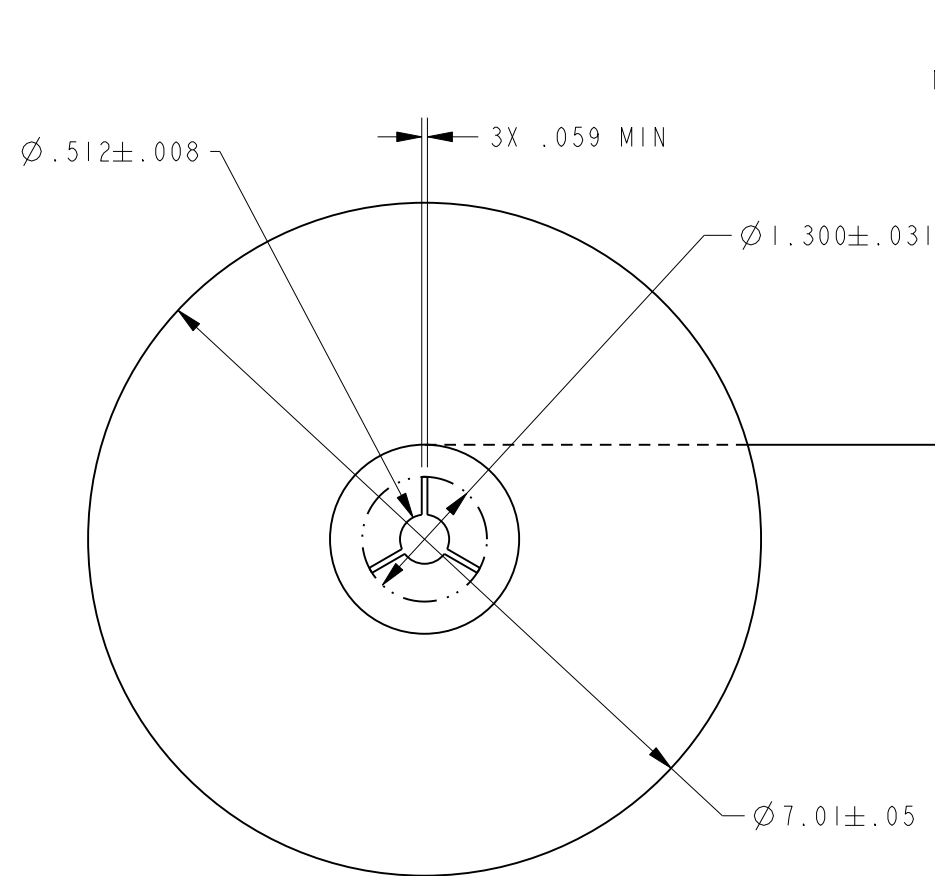


SECTION A-A



TAPE AND REEL DIMENSIONS

5



DIRECTION OF FEED FROM REEL

.480^{+.078}_{-.000}
MEASURED AT HUB

.724 MAX

Ø1.970 MIN



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SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
B	I	-	SS50AT	C
SCALE NONE		SHEET 2 OF 3		

CHARACTERISTICS ARE AT $V_s=4.5$ TO 24 VOLTS WITH 20mA LOAD WITH
 $T_A=-40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE NOTED

4 7

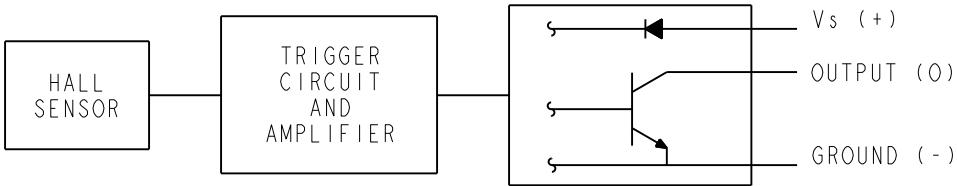
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SUPPLY VOLTAGE		4.5		24.0	VOLTS
SUPPLY CURRENT	25°C		6.8	10.0	mA
SUPPLY CURRENT				11.3	mA
OUTPUT CURRENT				20.0	mA
V_{sat} AT 15mA	GAUSS > 170			0.4	VOLTS
OUTPUT LEAKAGE	GAUSS < -170			10.0	μA
RISE TIME	25°C		0.5	1.5	μS
FALL TIME	25°C		0.2	1.5	μS
RESPONSE TIME	25°C		4.0	5.0	μS
MAX OPERATE	25°C		45	110	GAUSS
MAX OPERATE	-40°C TO 85°C		50	130	GAUSS
MAX OPERATE			55	170	GAUSS
MIN RELEASE	25°C	-110	-45		GAUSS
MIN RELEASE	-40°C TO 85°C	-130	-50		GAUSS
MIN RELEASE		-170	-55		GAUSS
MIN DIFFERENTIAL		50			GAUSS
OPERATING TEMP		-40		+125	°C
STORAGE TEMP		-55		+165	°C

ABSOLUTE MAXIMUM RATINGS

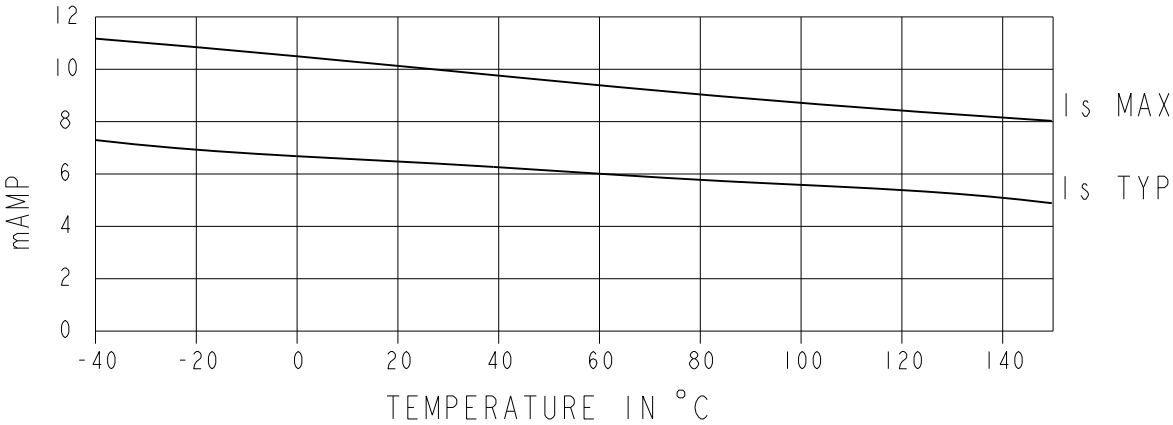
2

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SUPPLY VOLTAGE		-28		28	VOLTS
APPLIED OUTPUT VOLTAGE		-0.5		28	VOLTS
OUTPUT CURRENT				20	mA
MAGNETIC FLUX				NO LIMIT	GAUSS

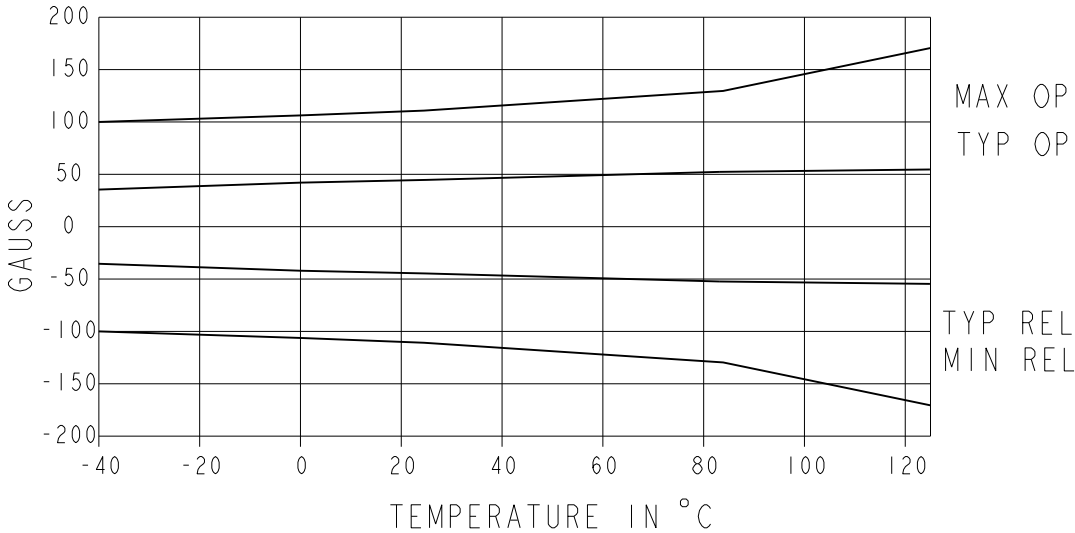
BLOCK DIAGRAM CURRENT SINKING OUTPUT



SUPPLY CURRENT AT $V_s=24\text{VOLTS}$



MAGNETIC CHARACTERISTICS



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SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
B	I	-	SS50AT	C
SCALE NONE		SHEET 3 OF 3		