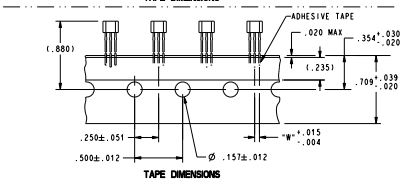


TAPE PACKING OPTIONS

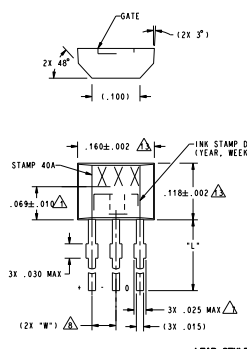
TAPE STYLE



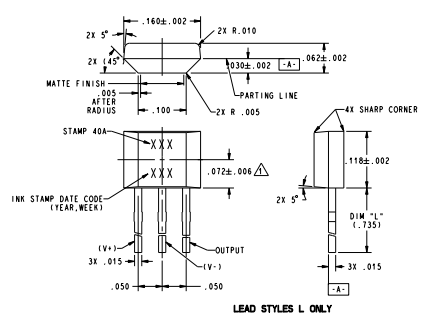
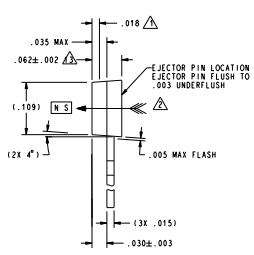
NOTES

- 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 THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS FABRICATED. TO TEST THE SWITCH AGAINST THE SPECIFIED LIMITS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD
- 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 TO 260°C SOLDERING TEMPERATURE 3 SECONDS MAX SOLDERING TIME
- 7 BURRS ARE ALLOWED ONLY IF FULL LENGTH OF LEADS WILL PASS THROUGH ∅ .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 DETERMINED 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 MAX
- 14 TAPE AND AMMOPACK PER EIA-468
- 15 THESE HALL EFFECT SENSORS MAY HAVE AN INITIAL OUTPUT IN EITHER THE ON OR OFF STATE IF POWERED UP WITH AN APPLIED MAGNETIC FIELD IN THE DIFFERENTIAL ZONE (APPLIED MAGNETIC FIELD > B_{op} AND < B_{op}). MICRO SWITCH RECOMMENDS THAT THE APPLICATION CIRCUIT DESIGNER ALLOW 10 MICROSECONDS AFTER SUPPLY VOLTAGE HAS REACHED 5 VOLTS FOR THE OUTPUT VOLTAGE TO STABILIZE

CATALOG LISTING	TAPE STYLE	DIM "L"	DIM "W"	COMMENTS
SS40A	NONE	.590	.050	BULK - 1000/BAG
SS40A-T2	T2	.590	.100	5000/BOX
SS40A-T3	T3	.590	.050	5000/BOX
SS40A-L	NONE	.735	.050	BULK - 1000/BAG
SS40A-F	NONE	.590	.100	BULK - 500/BAG



LEAD STYLES "STD", "T2", "T3"



LEAD STYLES L ONLY



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MICRO SWITCH
 Honeywell Division
SOLID STATE SENSOR
SS40A SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE: 1:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

ONE PLACE	±.03
TWO PLACE	±.01
THREE PLACE	±.005
ANGLES	±.2°

WEIGHT

ANSI Y14.5M-1982 PRACTICES

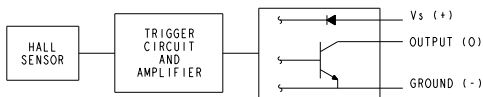
CHARACTERISTICS ARE AT $V_s=4.5$ TO 24 VOLTS WITH 20mA LOAD WITH \triangle \triangle
 $T_A=-40^\circ\text{C}$ TO $+125^\circ\text{C}$ UNLESS OTHERWISE NOTED

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

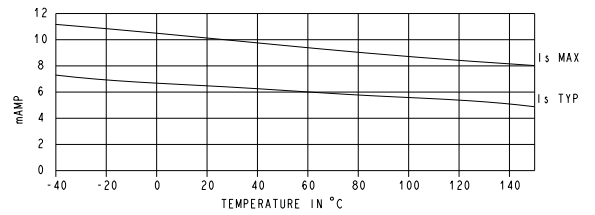
ABSOLUTE MAXIMUM RATING \triangle

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

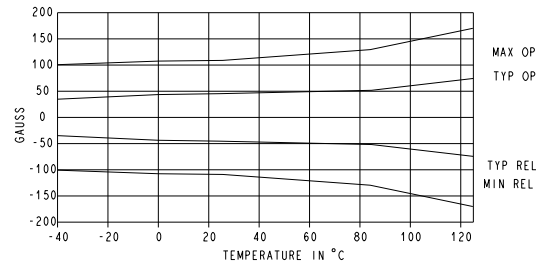
BLOCK DIAGRAM CURRENT SINKING OUTPUT



SUPPLY CURRENT AT $V_s = 24$ VOLTS



MAGNETIC CHARACTERISTICS



THIRD ANGLE PROJECTION
SCALE NONE
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE
ONE PLACE 1.03 ± 0.030
TWO PLACE 1.001 ± 0.015
THREE PLACE 1.0001 ± 0.005
ANGLES °
WEIGHT



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 TSP - 985 - 038 REV 01/87 CONTACT TESTING
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SS40A SERIES CHART 1

ANSI Y14.5M-1982 APPLIES